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ABSTRACT

This document is the answer key for level 3 of the teacher-developed mathematics curriculum for New York City schools. Over 250 performance objectives are listed, with reference to the appropriate worksheet(s) for each. The answers are typed in the appropriate space on each sheet; when varied answers are possible, this is noted. (MNS)

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CIMS

COMPREHENSIVE INSTRUCTIONAL MANAGEMENT SYSTEM

A Cyclical Mathematics Curriculum

LEVEL 3

Answer Key

NEW YORK CITY BOARD OF EDUCATION
OFFICE OF CURRICULUM DEVELOPMENT AND SUPPORT
DIVISION OF CURRICULUM & INSTRUCTION

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It is the commitment of the Comprehensive Instructional Management System (CIMS) to develop a teacher-designed curriculum, a computer assisted assessment system and to provide ongoing staff development that is responsive to the needs of the teachers and supervisors who are using the program.

In response to the many requests from the teachers using the CIMS curriculum, we have produced an answer key document. It is our intention that the answers provided in this document will prove to be time efficient which would allow the teachers to add the time saved to planning and preparing for the delivery of mathematics instruction. We hope that you, the teachers and supervisors of the Comprehensive Instructional Management system, will find this answer key useful.

This answer key was developed as a project by the Comprehensive Instructional Management System (CIMS) of the Division of Curriculum and Instruction, Pearl Warner, Executive Director (Acting), Susan Zakaluk, Director of Mathematics, Arthur Flug and Doreen D. Genkin, Assistant Directors of CIMS.

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3.04.11.02 &.03	Multiply a 2- or 3-digit number by a 1-digit number with regrouping (exchange) using the short multiplication algorithm; solve word problems related to skills learned in this module.....	80b
3.04.11.03	Solve word problems related to skills learned in this module.....	80c
Units 68,69, 70	**SHARPENING YOUR SKILLS.....**	**80d**
3.05.07.01 -.02	Recognize a remainder as that which is "left over" in division; solve word problems related to skills learned in this module.....	81a
Units 70,71	**SHARPENING YOUR SKILLS.....**	**82b**
3.06.04.01 &.02	Define and identify an improper fraction; define and identify a mixed number.....	82a
3.06.04.01 &.02	Define and identify an improper fraction; define and identify a mixed number.....	82b
3.06.04.03	Change an improper fraction to a mixed number or a whole number.....	82c
3.06.04.04	Change a mixed number or a whole number to an improper fraction.....	82d
3.06.05.01	Write a ratio to represent a relationship between two quantities.....	83a
3.06.05.02	Solve word problems related to skills learned in this module.....	83b
3.10.10.01 -.03	Identify uniform speed as rate; identify time as the number of hours traveled; solve word problems related to skills learned in this module.....	84a
Units 73,74	**SHARPENING YOUR SKILLS.....**	**84b**

P.O. 3.10.01.01 & .03

NAME:_____ CLASS:_____ DATE:_____

Use the calendar to answer the questions.

1986		SEPTEMBER				1986
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Labor Day 1	2	3	4	5	6
7	School Opens 8	9	10	11	12	13
14	15	16	17	18 Assembly	19	20
21	22	23	24	25	26	27
28	29	30				

1. The dates 9/3/86, 9/10/86, 9/17/86, and 9/24/86 are all on the same day of the week. On which day of the week is each date?

Wednesday

2. Write the date September 8, 1986 using numerals only. 9/8/86

3. Our first assembly will be on 9/18/86. The next assembly will be one week later. On what date will the next assembly take place? Write the answer using two forms.

9/25/86 September 25,1986

4. If today is September 13, 1986, what is tomorrow's date?

September 14,1986

5. If today is September 23, 1986, what was yesterday's date?

September 22,1986

P.O. 3.10.01.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1986		SEPTEMBER				1986
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

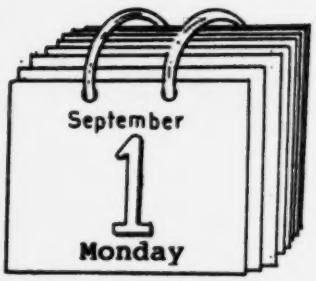
Henry marks an X on the calendar at the end of each day. For how many weeks has Henry been doing this?

3 weeks

Ernie saved a penny each day during the year. Today is the last day of the year. How many pennies did he save this year?

365 pennies

(366 pennies in a leap year)



Look at a wall calendar. If today is September 1, 1986, how many months have passed this year?

8 months

If true, make a happy face. ☺
If not true, make a sad face. ☹

☺ 7 days = 1 week

☺ 12 months = 1 year

☺ 365 days = 1 year

☺ 366 days = 1 leap year

☹ 12 weeks = 1 month

☺ 52 weeks = 1 year

P.O. 3.10.01.03

NAME:_____ CLASS:_____ DATE:_____

Use the calendar to help you answer the questions.

1986		NOVEMBER				1986
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						X 1
X 2	X 3	ELECTION DAY X 4	X 5	X 6	X 7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26		28	29
30						

1. Kevin marks an X at the end of each day on the calendar.
   On which day of the week is the last X? Friday
   What is the date? November 7, 1986

2. If today is 11/6/86, in how many weeks will it be Thanksgiving? 3 weeks

3. On what day of the week is Election Day? Tuesday

4. The doctor gave Mr. Brutus his check-up on November 11.
   He must return 2 weeks later.
   On what date must he return? November 25

5. Sarah's birthday is November 20.
   Jane's birthday is two weeks before Sarah's.
   What is the date of Jane's birthday? November 6

P.O. 3.14.01.01

NAME: _____ CLASS: _____ DATE: _____

Refer to Strategy 1.

Cut out the addition table and the reverse L along the dotted lines.

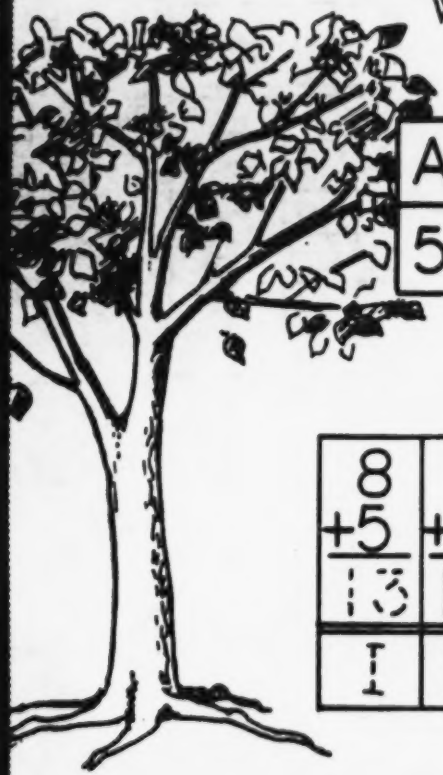
+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

P.O. 3.14.01.01

NAME:_____ CLASS:_____ DATE:_____

Use the code to solve the riddle.

When does part of a tree drop to the ground?



A	E	F	H	I	L	M	N	S	T	U	V	W
5	14	6	11	13	16	10	15	8	7	12	17	9

8	7
+5	+8
13	15
I	N

5	6	8
+2	+5	+6
7	11	14
T	H	E

3	8	6	9	6	9
+2	+4	+1	+3	+4	+6
5	12	7	12	10	15
A	U	T	U	M	N

5	4	7	8
+4	+7	+7	+7
9	11	14	15
W	H	E	N

7	5	4	8	6	5
+9	+9	+1	+9	+8	+3
16	14	5	17	14	8
L	E	A	V	E	S

6	0	8	9
+0	+5	+8	+7
6	5	16	16
F	A	L	L

P.O. 3.14.01.02

NAME:_____ CLASS:_____ DATE:_____

Use the rule in each box to fill in the missing answers.

subtract 5	
12	7
10	5
7	2

subtract 8	
15	7
16	8
12	4

subtract 7	
12	5
14	7
11	4

subtract 9	
18	9
14	5
11	2

subtract 6	
15	9
12	6
9	3

12	
14	
10	

Answers will vary.

CHALLENGE!

Odd or even?

An odd number minus an odd number is an even number.

An even number minus an even number is an even number.

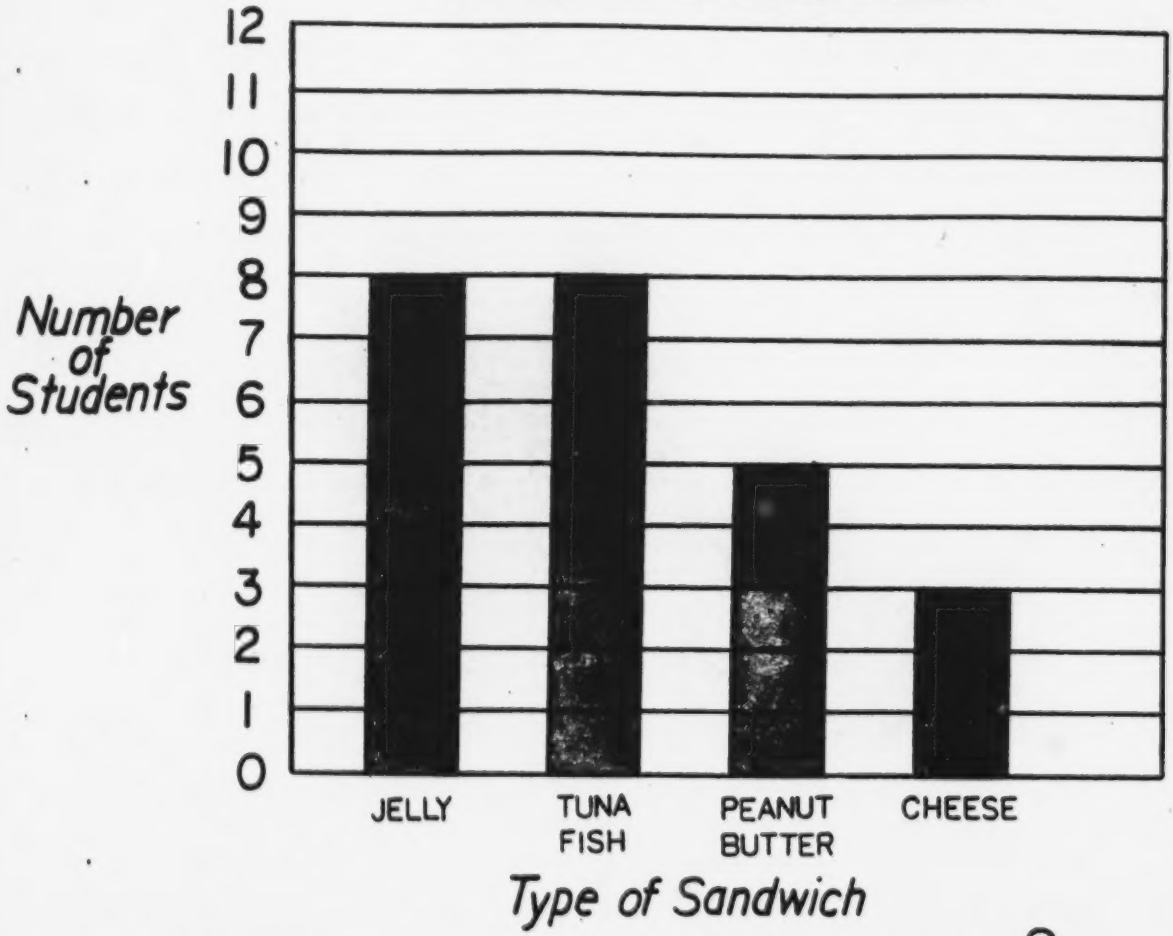
An odd number minus an even number is an odd number.

An even number minus an odd number is an odd number.

P.O. 3.12.01.01

NAME:_____ CLASS:_____ DATE:_____

Use the graph to answer the questions.



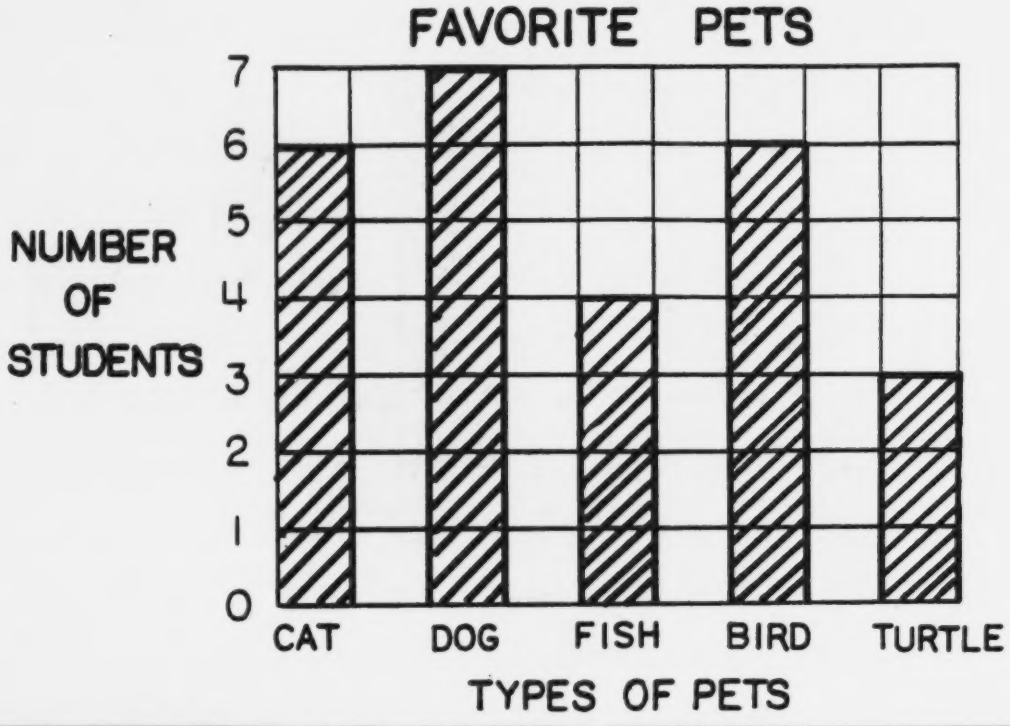
1. How many students chose tuna fish as their favorite sandwich? 8
2. Which sandwich did five students like best? peanut butter
3. Which was the least favorite sandwich? cheese
4. Which sandwiches were the favorites of an equal number of students? jelly and tuna fish
5. How many more students liked tuna fish than peanut butter? 3
6. How many students in all like jelly, tuna fish and cheese sandwiches? 19

P.O. 3.12.01.02

NAME: _____ CLASS: _____ DATE: _____

Use the information in the tally to construct a bar graph.

FAVORITE PETS	TALLY OF THE NUMBER OF STUDENTS	NUMBER
CAT	𝍸 I	6
DOG	𝍸 II	7
FISH	IIII	4
BIRD	𝍸 I	6
TURTLE	III	3



Do you remember?

1 pint = 2 cup(s)

1 quart = 2 pint(s)

2 pints = 1 quart(s)

1 quart = 4 cup(s)

2 cups = 1 pint(s)

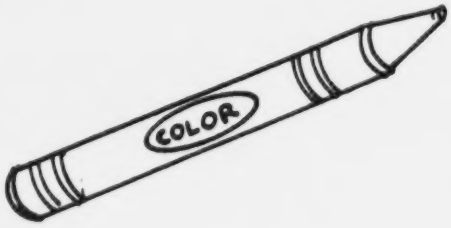
4 cups = 1 quart(s)

P.O. 3.12.01.02

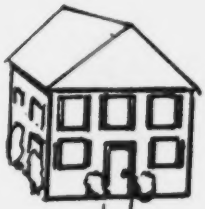
NAME:_____ CLASS:_____ DATE:_____

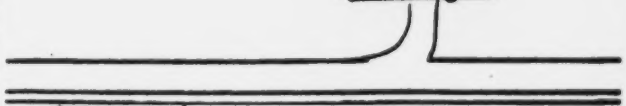
Use these pictures with strategy 1 to gather data for graphs.

What is your favorite color?

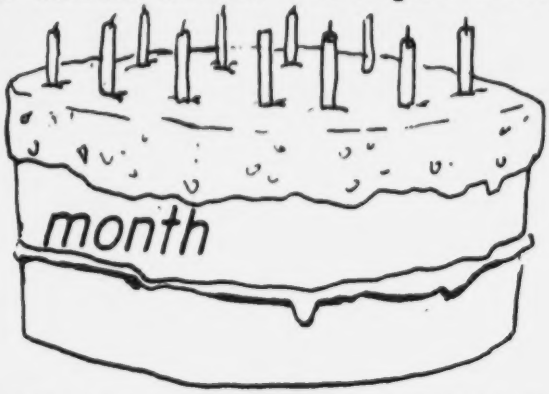


Where do you live?





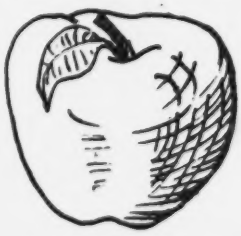
In which month were you born?

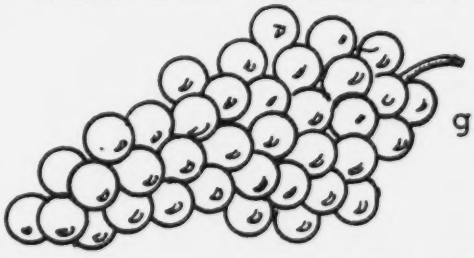


What is your favorite ice cream flavor?

Which is your favorite fruit?

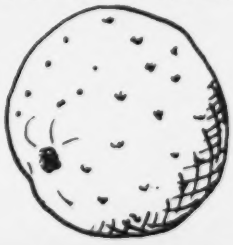
apple





grapes

banana



orange

SHARPENING YOUR SKILLS

Units 1, 2, 3

Name: _____ **Class:** _____ **Date:** _____

Use the calendar below to answer questions 1 through 5.

OCTOBER						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1. On which day of the week did the month begin? Thursday

2. On which day of the week will the month end? Saturday

3. What will the date be one week <u>after</u> October 9th?

(a) Oct. 2nd (c) Oct. 10th

(b) Oct. 8th ● Oct. 16th

4. How much time is <u>between</u> October 4th and October 11th?

(a) one year ● one week

(b) one month (d) 31 days

5. On which day of the week will November 1st be?

(a) Friday (c) Monday

(b) Saturday ● Not given

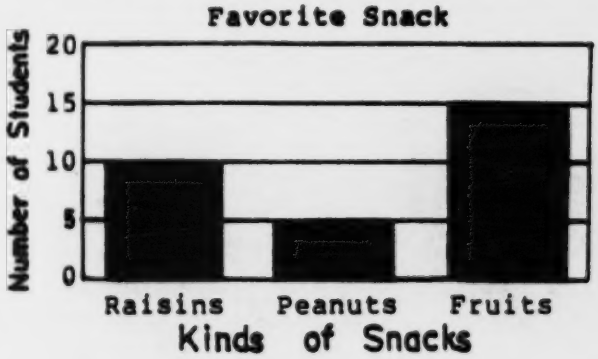
6. Complete the fact family.

8, 7, 15	
8+7= 15	15-7= 8
7+8= 15	15-8=7

7. Complete the fact family.

8, 4, 12	
8+4= 12	12-4=8
4+8=12	12-8=4

Use the graph to answer questions 8 through 10.



8. How many more students liked fruits than peanuts? 10

9. Which snack did 15 students vote for as their favorite? fruits

10. How many students in all voted for their favorite snack?

(a) 10 (c) 15

(b) 5 ● 30

P.O. 3.10.02.02

NAME: _____ CLASS: _____ DATE: _____

Complete each sentence with the time shown on the clock.

Joey gets up at

a quarter after 7

or 7:15.

Joey eats breakfast at

a quarter to 8

or 8:45.

Joey copies his homework at

a quarter after 11

or 11:15.

Joey reads his book at

a quarter after 1

or 1:15.

Joey begins his homework at

a quarter to 6

or 5:45.

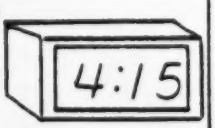
Joey eats lunch at

a quarter to 12

or 11:45.

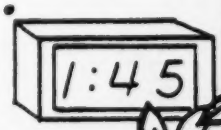
Joey has milk and cookies at

a quarter after 4.



Joey writes a story at

a quarter to 2.

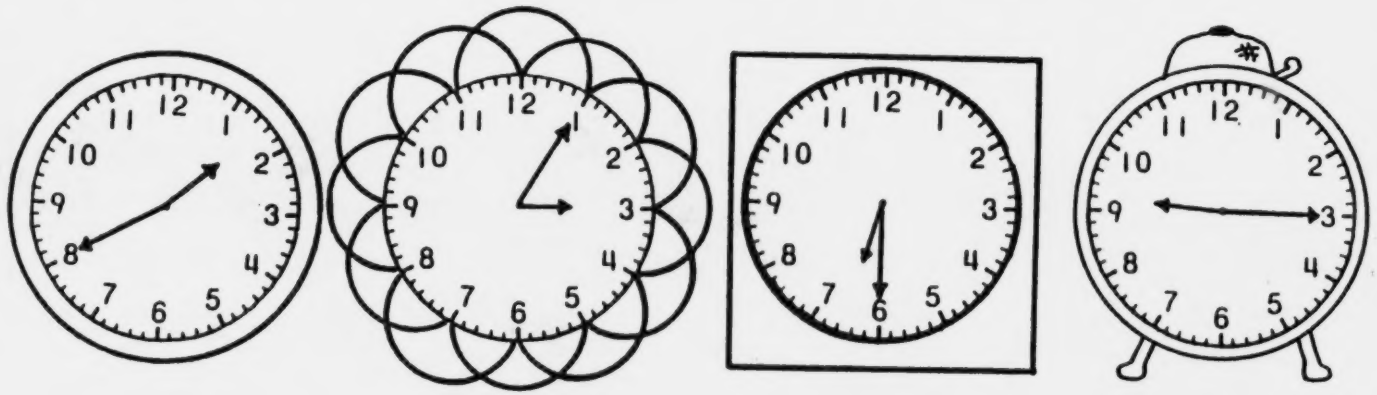


P.O. 3.10.02.03

NAME: _____ CLASS: _____ DATE: _____

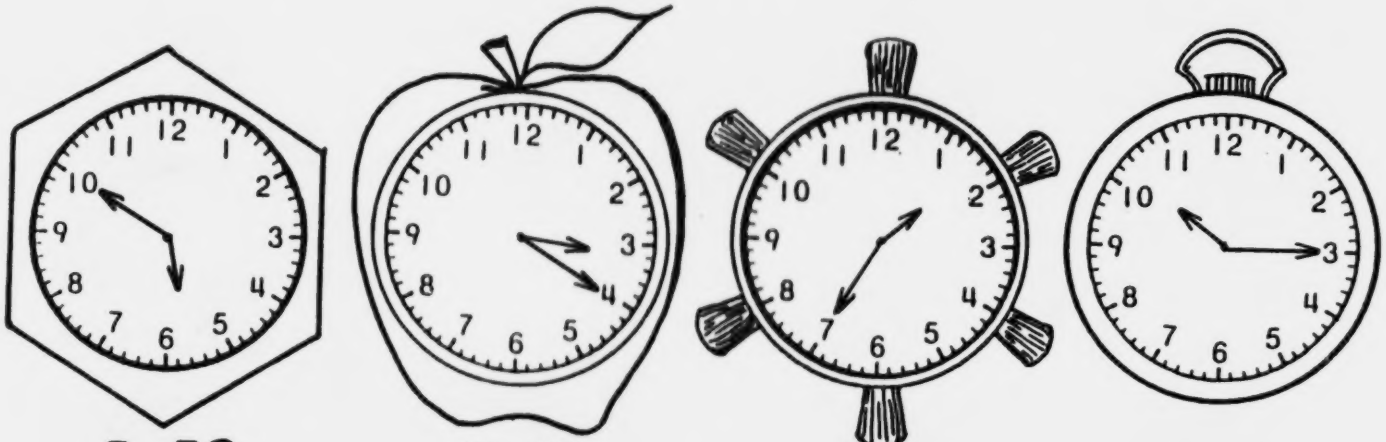
Follow the directions below.

Read each clock. Write its time on the line below it.



1:40 3:05 6:30 9:15

Place hands on each clock to show the correct time.



5:50 3:20 1:35 10:15

P.O. 3.10.02.04

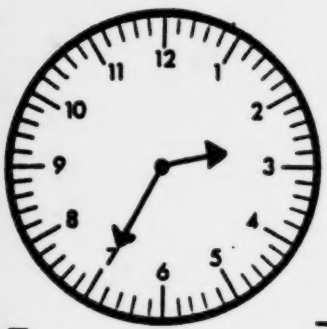
NAME:_____ CLASS:_____ DATE:_____

Tell the time by filling in the blanks under each clock.

10 minutes to 3

15 minutes to 5

6 minutes to 6



25 minutes before 3

2 minutes before 9

10 minutes before 12

20 minutes of 11

18 minutes of 1

26 minutes of 5

P.O. 3.10.02.05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

John walks to school at 8:00 A.M.

John watches the A-team at 8:00 P.M.

Write A.M. or P.M.

1. Sam eats breakfast at 7:30 A.M.
2. Joann went to the library at 11:15 A.M.
3. Billy does his homework at 3:30 P.M.
4. Joan goes to bed at 9:45 P.M.
5. I go to school from 8:30 A.M. to 3:00 P.M.

Complete the sentences below by using the times listed in the box.

7:30 A.M.	8:00 P.M.	12:30 P.M.	6:00 P.M.	4:00 P.M.

1. Ann eats lunch in the afternoon at 12:30 P.M.
2. Connie brushes her teeth in the morning at 7:30 A.M.
3. Ronald went to the dentist in the afternoon at 4:00 P.M.
4. Jon eats dinner in the evening at 6:00 P.M.
5. Jon listens to the radio after dinner at 8:00 P.M.

Do you remember?

$\boxed{8} + 7 = 15$

$8 + \boxed{7} = 15$

$15 - \boxed{8} = 7$

$\boxed{15} - 8 = 7$

$11 - \boxed{4} = 7$

$\boxed{11} - 4 = 7$

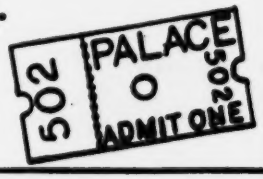
$4 + \boxed{7} = 11$

$\boxed{7} + 4 = 11$

P.O. 3.10.02.06

NAME:_____ CLASS:_____ DATE:_____

Use a clock to help you solve each problem.

	ANSWERS
1. Jane leaves school at 3:00 P.M. She plays volleyball 1 hour and 30 minutes later. What time will the volleyball game start?	4:30 P.M.
2. Joe ate lunch at 12:30 P.M. He went to the movies 35 minutes later. What time did he go to the movies? 	1:05 P.M.
3. Mr. Smith began painting at 1:40 P.M. He finished at 4:40 p.m. How long did he work?	3 hours
4. David has a guitar lesson at 11:15 A.M. His lesson is 45 minutes. What time will he finish his lesson?	12:00 noon
5. Ruth arrived at the bus stop at 8:20 A.M. The bus arrived 15 minutes later. What time did the bus arrive?	8:35 AM.

Do you remember?

	check		check		check
324	32	564	35	730	68
+32	+324	+35	+564	+68	+730
356	356	599	599	798	798

P.O. 3.14.02.01

NAME:_____ CLASS:_____ DATE:_____

Look at the underlined digit in each number.
Circle the word and numeral which tells its value.

5<u>8</u>1	Hundreds (Tens) Ones	800 (80) 8
<u>3</u>35	(Hundreds) Tens Ones	(300) 30 3
7<u>0</u>4	Hundreds (Tens) Ones	700 70 (0)
6<u>5</u>3	Hundreds (Tens) Ones	500 (50) 5
<u>7</u>12	(Hundreds) Tens Ones	(700) 70 7
80<u>9</u>	Hundreds Tens (Ones)	900 90 (9)
92<u>4</u>	Hundreds Tens (Ones)	400 40 (4)
7<u>2</u>3	Hundreds (Tens) Ones	200 (20) 2
<u>2</u>22	(Hundreds) Tens Ones	(200) 20 2
<u>3</u>13	(Hundreds) Tens Ones	(300) 30 3

Do you remember?

2, 3, 6	
3x2=6	6÷2=3
2x3=6	6÷3=2

3, 4, 12	
3x4=12	12÷3=4
4x3=12	12÷4=3

5, 4, 20	
5x4=20	20÷4=5
4x5=20	20÷5=4

P.O. 3.14.02.02 - .03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write each number in expanded form.

245 = [2] hundreds + [4] tens + [5] ones

518 = [5] hundreds + [1] tens + [8] ones

602 = [6] hundreds + [0] tens + [2] ones

274 = 200 + 70 + 4

187 = 100 + 80 + 7

310 = 300 + 10 + 0

Write each number in standard form.

400 + 60 + 3 = 463

700 + 20 + 8 = 728

500 + 6 = 506

2 hundreds + 1 ten + 4 ones = 214

4 hundreds + 2 tens + 6 ones = 426

7 hundreds + 8 tens + 7 ones = 787

Do you remember? Count by tens.

660, 670, 680, 690, 700, 710, 720

70, 80, 90, 100, 110, 120, 130

480, 490, 500, 510, 520, 530, 540

250, 260, 270, 280, 290, 300, 310

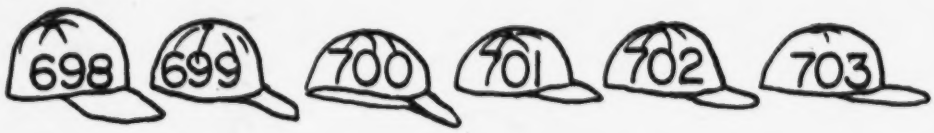
P.O. 3.01.01.01

NAME: _____ CLASS: _____ DATE: _____

Complete each number sequence. If the numbers are getting larger, write forward. If the numbers are getting smaller, write backward.

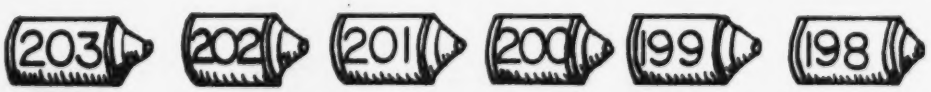
forward

backward



forward

forward



backward

Do you remember?

Today is 11/16/86.

The month is November.

The year is 1986.

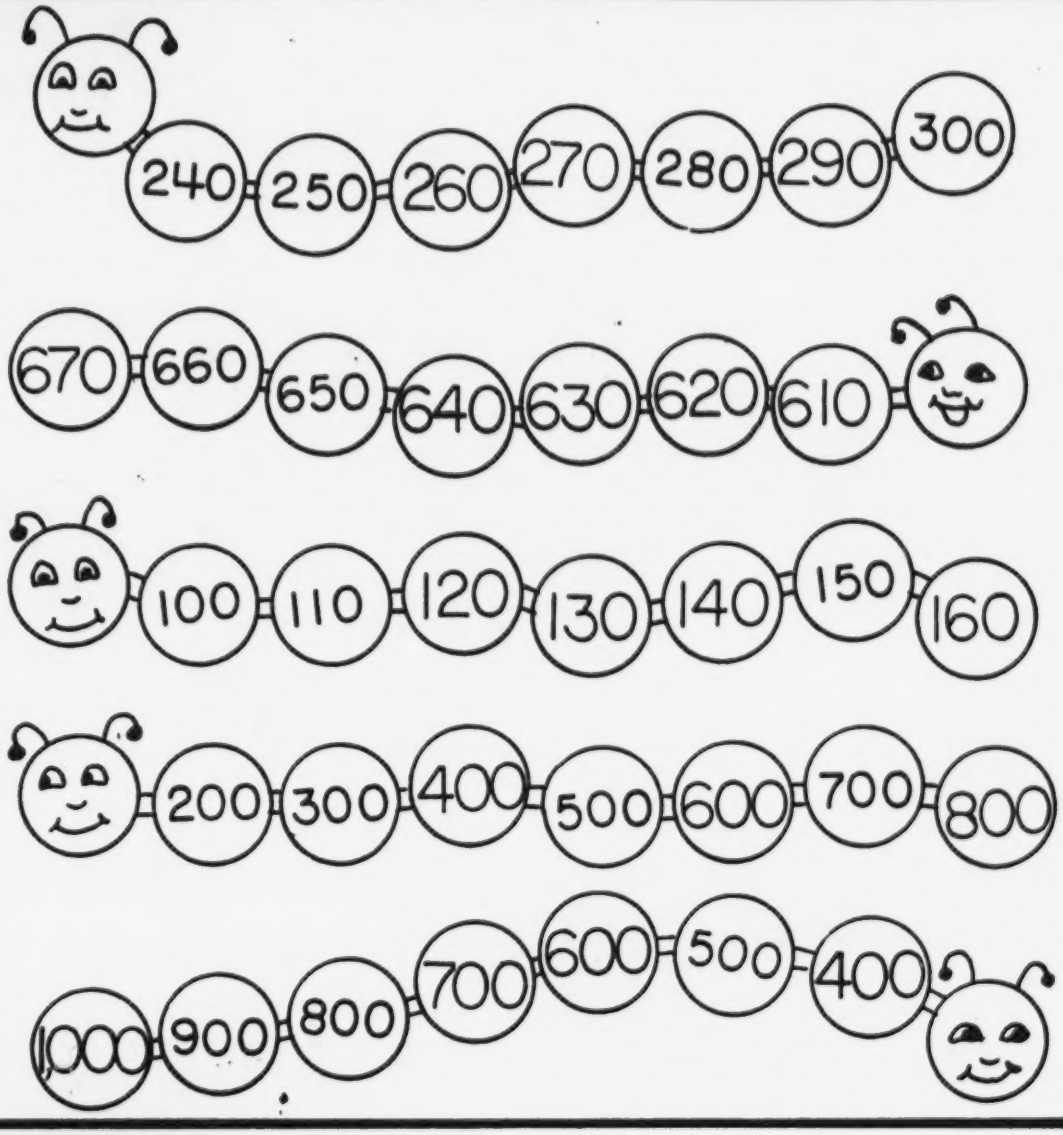
Tomorrow's date is 11/17/86.

Yesterday's date was 11/15/86.

P.O. 3.01.01.02-.03

NAME:_____ CLASS:_____ DATE:_____

Complete each caterpillar by writing the missing numbers as you count forward or backward.



CHALLENGE!

68, 78, 88, 98, 108, 118

184, 174, 164, 154, 144, 134

SHARPENING YOUR SKILLS

Units 4, 5, 6

Name: _____ **Class:** _____ **Date:** _____

Which digital clock shows the same time as the standard clock?

1.

(a) 1:11 ● 1:55

(b) 11:02 (d) 2:55

2.

● 8:10 (g) 2:10

(f) 2:08 (h) 8:02

3. Willie went to sleep at 10:00 P.M. He woke up three hours later. At what time did he wake up? 1:00 A.M.

4. 3 hundreds + 7 ones = ☐

(a) 3007 (c) 7300

● 307 (d) 7003

5. 700 + 30 + 8 = ☐

(e) 837 ● 738

(f) 700308 (h) 7308

	H	T	O	
6.		2	4	= 24
7.	6	4	5	= 645

Find the patterns. Fill in the missing numbers.

8. 697, 698, 699, 700, 701, 702, 703, 704

9. 102, 101, 100, 99, 98, 97, 96, 95

10. 300, 400, 500, 600, 700, 800, 900, 1000

11. 780, 770, 760, 750, 740, 730, 720

12. 70, 80, 90, 100, 110, 120, 130, 140

P.O. 3.01.02.01

NAME:_____ CLASS:_____ DATE:_____

Estimate the number of bubbles. Then count the bubbles for the actual count.

ESTIMATE

ACTUAL COUNT

111

Answers may vary.

P.O. 3.01.02.02.-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Shade in the ⇧ if you are rounding up and the ⇩ if you are rounding down. Then round the number to the nearest hundred.

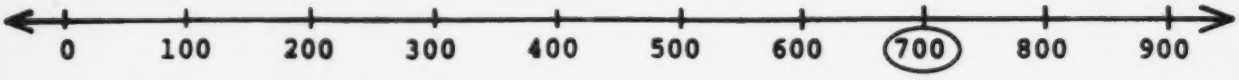
A. ⇧⇩ 136 rounds to the nearest hundred as 100.

B. ⇧⇩ 616 rounds to the nearest hundred as 600.

C. ⇧⇩ 872 rounds to the nearest hundred as 900.

D. ⇧⇩ 243 rounds to the nearest hundred as 200.

Books must be ordered in groups of one hundred. On the number line circle the number of books you must order if there are 682 students in your school.



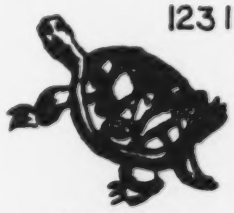
Will this be enough for all students? YES

Will any books be left over? YES How many? 18

Round each animal's weight to the nearest hundred pounds.

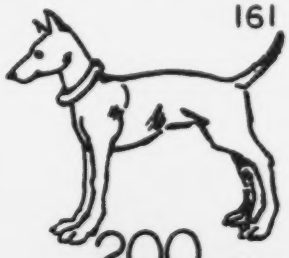
400 lbs.

400 lbs.



100 lbs.

800 lbs.



200 lbs.

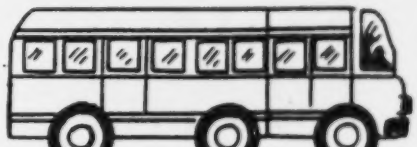
700 lbs.

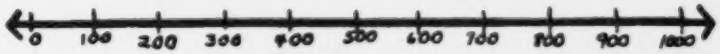
P.O. 3.01.02.02-.04

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

The school bus stops on Grove Street at all the house numbers on the number line. Below are some students and their house numbers. Write the stop that is closest to each student's house.





623 600

472 500

850 900

255 300

306 300

924 900

688 700

356 400

137 100

Do you remember? WRITE > OR < .

246 < 729	589 < 598	64 < 106
685 > 274	706 < 760	580 > 508
756 > 567	124 < 321	516 > 472

P.O. 3.01.02.05

NAME: _____ CLASS: _____ DATE: _____

Complete the work below.

How do you round a 3-digit number to the nearest ten? Look at the ones place.

If the digit in the ones place is 0, 1, 2, 3, or 4 you round to the next lower ten.

723 rounded to the nearest ten is 720.

841 rounded to the nearest ten is 840.

364 rounded to the nearest ten is 360.

852 rounded to the nearest ten is 850.

170 rounded to the nearest ten is 170.

If the digit in the ones place is 5, 6, 7, 8, or 9 you round to the next higher ten.

536 rounded to the nearest ten is 540.

248 rounded to the nearest ten is 250.

165 rounded to the nearest ten is 170.

307 rounded to the nearest ten is 310.

319 rounded to the nearest ten is 320.

You will round each number below to the nearest ten. Write an arrow pointing up (↑) if the number rounds to the next higher ten. Write an arrow pointing down (↓) if the number rounds to the next lower ten.

347	↑	350	513	↓	510	289	↑	290
652	↓	650	426	↑	430	133	↓	130

P.O. 3.01.03.01-.02

NAME:_____ CLASS:_____ DATE:_____

Cut out the words and numbers along the dotted lines. Match each number to its expanded notation.

7528	2000+900+90+5	6205
4 thousand + 3 ones	4002	1100
6000+200+5	7000+500+20+8	2469
2000+400+60+9	1 thousand + 1 hundred	6000+300+10+1
7050	4003	4000 + 2
2995	6311	7 thousand + 5 tens

CHALLENGE!

What is an odd 3-digit number with the sum of its digits equal to 4? 121 or 211 or 103 or 301

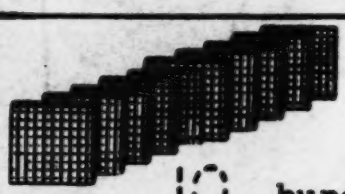
What is an odd 4-digit number with the sum of its digits equal to 4? 1111 or 1021 or 2011 or 2101 or 1003 or 3001

P.O. 3.01.03.03-.04

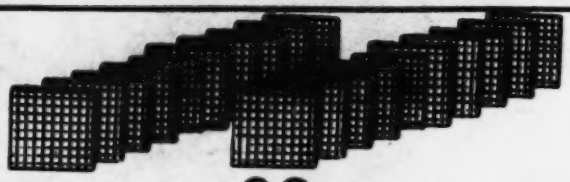
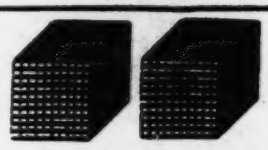
NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Regroup the hundreds as thousands.



10 hundreds = 1 thousand = 1000

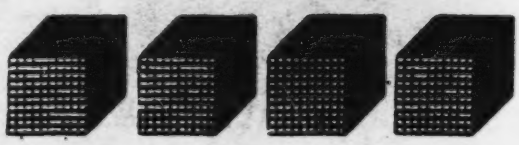



20 hundreds = 2 thousands = 2000

30	hundreds	=	3	thousands	= 3000
50	hundreds	=	5	thousands	= 5000
70	hundreds	=	7	thousands	= 7000
90	hundreds	=	9	thousands	= 9000
60	hundreds	=	6	thousands	= 6000

Regroup the thousands as hundreds.

3 thousands = 30 hundreds



4 thousands = 40 hundreds

5	thousands	=	50	hundreds
2	thousands	=	20	hundreds
8	thousands	=	80	hundreds
6	thousands	=	60	hundreds
1	thousand	=	10	hundreds

P.O. 3.01.03.05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Commas help us read large numbers.

Write commas where they belong.

4,963	68	6,457
325	275	8,312
9,000	4,392	900
38	150	9,000
2,163	6,500	42
7,452	7,553	5,213
8,321	1,002	3,636

Do you remember?

1. How many days are in this year? 365 (or 366 in a leap year)
2. What month has an extra day every four years? FEBRUARY
3. How many weeks are in one year? 52
4. What is the tenth month of the year? OCTOBER
5. Write today's date using only numerals. Answers will vary.

SHARPENING YOUR SKILLS

Units 7, 8

Name: _____ Class: _____ Date: _____

Round each 3-digit number to the nearest hundred.

1. 276 rounded to the nearest hundred is 300.
2. 450 rounded to the nearest hundred is 500.
2. 148 rounded to the nearest hundred is 100.
4. 549 rounded to the nearest hundred is 500.

Round each number to the nearest ten.

5. 451 to the nearest ten is _____.

- ● 450
- (b) 500
- (c) 400
- (d) 460

6. 295 to the nearest ten is ____.

- (a) 285
- (b) 290
- (c) 250
- ● 300

Regroup each number as thousands. Write the comma in its proper place.

8. 40 hundreds = 4,000
9. 10 hundreds = 1,000
10. 90 hundreds = 9,000
11. 70 hundreds = 7,000

Regroup as hundreds.

12. 4 thousands = 40 hundreds
13. 6 thousands = 60 hundreds

Write each number in standard form.

14. 2 thousand + 4 tens + 5 ones = 2,045
15. 7 thousand + 1 hundred + 6 tens = 7,160
16. 1 thousand + 3 hundreds + 1 ten + 8 ones = 1,318
17. 9 thousand + 3 hundreds + 7 ones = 9,307

P.O. 3.01.04.01

NAME:_____ CLASS:_____ DATE:_____

Follow the directions in each part.

Rewrite the numbers in increasing order.

A. 301, 476, 211 — 211, 301, 476

B. 725, 516, 945 — 516, 725, 945

C. 799, 802, 796 — 796, 799, 802

Rewrite the numbers in decreasing order.

A. 269, 525, 102 — 525, 269, 102

B. 965, 988, 452 — 988, 965, 452

C. 630, 220, 650 — 650, 630, 220

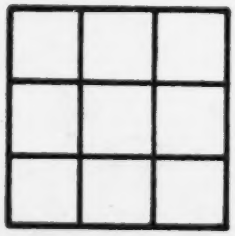
Write increasing or decreasing for each group of numbers.

A. 306, 513, 603 — increasing

B. 671, 617, 611 — decreasing

C. 403, 314, 304 — decreasing

CHALLENGE!



How many squares are there?

There are 14 squares.

P.O. 3.01.04.02

NAME: _____ CLASS: _____ DATE: _____

Arrange the house numbers in increasing order, by mailing address.
Arrange the house numbers in the return addresses in decreasing order.

R. Watkins
7041 Truman Dr.
Brooklyn, N.Y. 11235

Mr. Jack Best
6554 Gray Blvd.
New York, N.Y. 10029

M. Johns
4027 Truman Dr.
Brooklyn, N.Y. 11235

Ms. Joan Hand
5886 Gray Blvd.
New York, N.Y. 10029

J. Smith
6056 Truman Dr.
Brooklyn, N.Y. 11235

Mr. Bill Jones
7429 Gray Blvd.
New York, N.Y. 10029

B. Brown
4196 Truman Dr.
Brooklyn N.Y. 11235

Ms. Carol Jackson
7436 Gray Blvd.
New York, N.Y. 10029

Write the house numbers of mailing addresses in increasing order.

5886 6554 7429 7436

Write the house numbers of return addresses in decreasing order.

7041 6056 4196 4027

Do you remember? What time is shown on each clock?

2:30

11:30

7:30

P.O. 3.13.01.01

NAME:_____ CLASS:_____ DATE:_____

Read each question. Guess the answer. Check your answer. Answers may vary.

How many hands will it take to go across your desk?

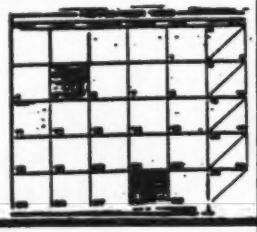
Guess____ Measure____

How many steps will it take you to walk from one side of the classroom to the other side?

Guess____ Measure____

How many days will it be until the next holiday?

Guess____ Measure____



How many whole pieces of chalk will fit across the chalk ledge?

Guess____ Measure____

How many times can you count to ten in a minute? (Work with a partner.)
1 2 3 4 5 6 7 8 9 10

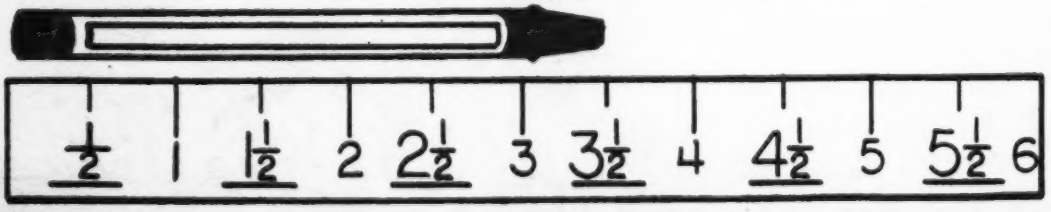
Guess____ Measure____

How many inches wide is your palm?

Guess____ Measure____

Do you remember?

Complete the markings on the ruler.
The crayon measures $3\frac{1}{2}$ inches.



P.O. 3.13.01.02

NAME:_____ CLASS:_____ DATE:_____

Guess and check to find the mystery number.
Write the mystery number in the box.

The mystery number comes after 20 but before 30.
(21, 22, 23, 24, 25, 26, 27, 28, 29)

The number is even.
(22, 24, 26, 28)

If you add its digits together the sum is ten.
(2+2=4, 2+4=6, 2+6=8, 2+8=10)

Can you find the mystery number? **28**

The mystery number is between 10 and 20.
(11, 12, 13, 14, 15, 16, 17, 18, 19)

It is an odd number.
(11, 13, 15, 17, 19)

When you subtract the first digit from the second digit the difference is four.
(1-1=0, 3-1=2, 5-1=4, 7-1=6, 9-1=8)

Can you find the mystery number? **15**

The mystery number is larger than 40 but smaller than 50.
(41, 42, 43, 44, 45, 46, 47, 48, 49)

It is an even number.
(42, 44, 46, 48)

When you subtract the first digit from the second digit the difference is 2.
(4-4=0, 6-4=2, 8-4=4)

Can you find the mystery number? **46**

Do you remember?

The Smith family took an automobile trip. They traveled 482 miles the first day and 364 miles the second day. How many more miles did they travel the first day? 118 more miles

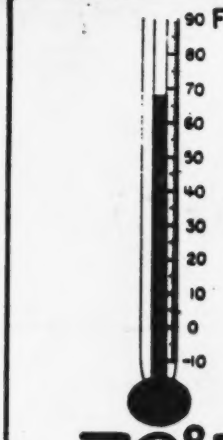
P.O. 3.10.03.01-.02

NAME:_____ CLASS:_____ DATE:_____

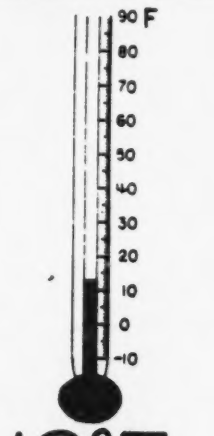
Follow the directions below.

Write the temperature shown on each Fahrenheit thermometer to the nearest ten degrees.

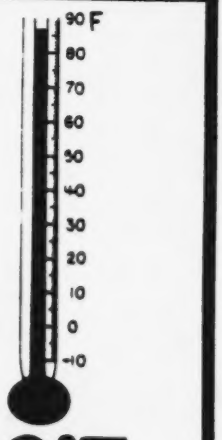
50°F



70°F



10°F

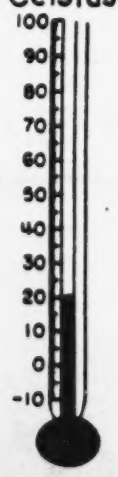


90°F

Use the chart to help you fill in the Celsius thermometer to the nearest 5 degrees.

Water Boils	100°C
Hot Day	50°C
Body Temperature	38°C
Room Temperature	20°C
Cool Day	18°C
Water Freezes	0°C

Celsius

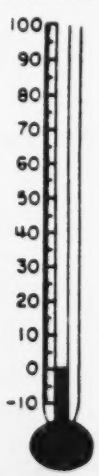


Room Temperature

Celsius

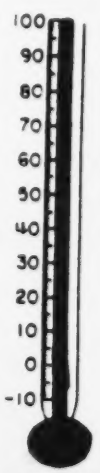
Body Temperature

Celsius



Water Freezes

Celsius



Water Boils

SHARPENING YOUR SKILLS

Units 9, 10, 11

Name: _____ **Class:** _____ **Date:** _____

1. Which set of numbers is arranged in order from the least to the greatest?

   (a) 294, 249, 429, 924

   (b) 732, 723, 327, 372

   ● 158, 185, 518, 581

2. Write these numbers in order from the greatest to the least:

   588, 608, 598

   608, 598, 588

3. Use the number cards below to complete the grid. Each column and row should equal a sum of 15.

4	3	8
9	5	1
2	7	6

4. Your teacher needs 87 pencils. Place an X on the two boxes of pencils you will give her.

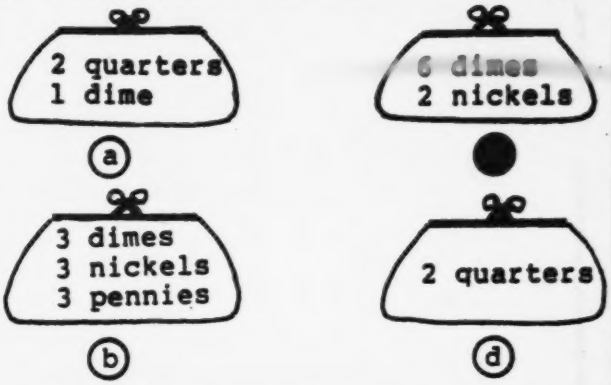
5.

Sandwiches		Drinks	
Cheese	$1.25	Milk	$.30
Turkey	$1.30	Juice	$.50
Chicken	$1.40	Shake	$.40

Mac spent $1.65 for a sandwich and a drink. What did he have for lunch?

Sandwich Cheese Drink Shake

6. Which purse has the most money?

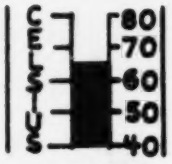


(a) (●) (b) (d)

7. Which thermometer shows about 45° Fahrenheit?

(a) (b) (●)

8. What is the temperature shown on the thermometer?



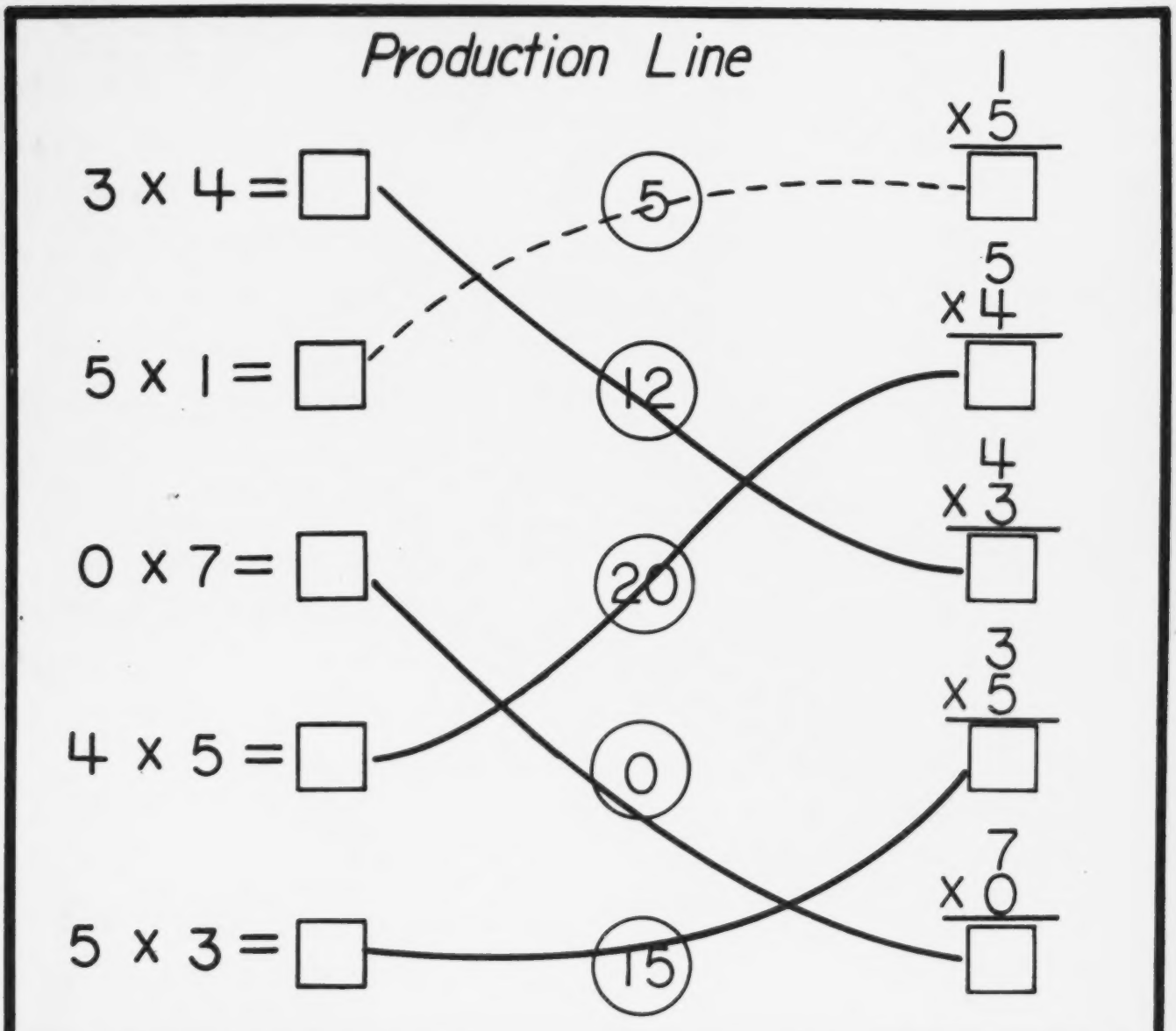
70°C 65°C 60°C

(a) (●) (c)

P.O. 3.04.01.01

NAME:_____ CLASS:_____ DATE:_____

Connect the horizontal and vertical examples to their products.



CHALLENGE!

I have 50¢. How much change will I have left if I buy 9 pencils costing 5¢ each? 5¢

P.O. 3.04.01.02

NAME: _____ CLASS: _____ DATE: _____

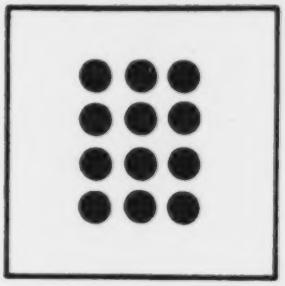
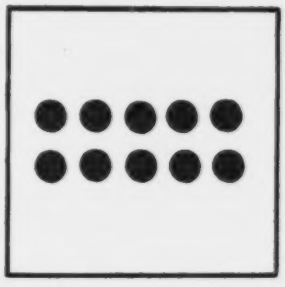
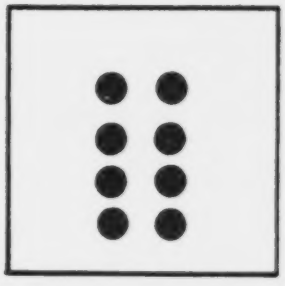
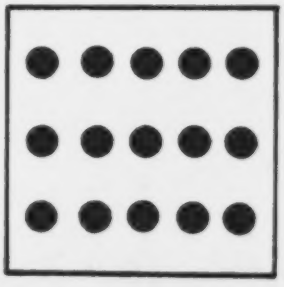
Cut out the shaded part of the page. Use it to complete the multiplication table.

X	0	1	2	3	4	5
0	0	0	0	0	0	0
1	0	1	2	3	4	5
2	0	2	4	6	8	10
3	0	3	6	9	12	15
4	0	4	8	12	16	20
5	0	5	10	15	20	25

P.O. 3.04.01.03

NAME:_____ CLASS:_____ DATE:_____

For each example, use the array to fill in the missing information. Turn the page sideways and use the same array to complete the related fact. Then complete the related examples in the last column.

4 *threes* 4 x 3 = 12		3 *fours* 3 x 4 = 12	4 x 3 = 12 3 x 4 = 12
2 *fives* 2 x 5 = 10		5 *twos* 5 x 2 = 10	2 x 5 = 10 5 x 2 = 10
4 *twos* 4 x 2 = 8		2 *fours* 2 x 4 = 8	4 x 2 = 8 2 x 4 = 8
3 *fives* 3 x 5 = 15		5 *threes* 5 x 3 = 15	3 x 5 = 15 5 x 3 = 15

P.O. 3.05.01.01

NAME:_____ CLASS:_____ DATE:_____

Solve the examples. Draw an X on the example in each row which is not related to that row.

$6 \div 2 = \boxed{3}$	$2\overline{)6}$ with $\boxed{3}$	~~$4\overline{)8}$ with $\boxed{2}$~~
$4\overline{)12}$ with $\boxed{3}$	$12 \div 4 = \boxed{3}$	~~$4\overline{)16}$ with $\boxed{4}$~~
~~$5\overline{)25}$ with $\boxed{5}$~~	$20 \div 5 = \boxed{4}$	$5\overline{)20}$ with $\boxed{4}$
$8 \div$ ~~4~~ $= \boxed{2}$	$9 \div 3 = \boxed{3}$	$3\overline{)9}$ with $\boxed{3}$

Write and solve 2 division examples for each problem.

Bob has 8 peaches. He will share them with 4 friends. How many peaches will each friend get?

$8 \div 4 = 2$

$4\overline{)8}$ with 2

2 PEACHES

Sarah has 12 pennies. She will give an equal number to 3 friends. How many pennies will each friend get?

$12 \div 3 = 4$

$3\overline{)12}$ with 4

4 PENNIES

Do you remember?

If it is 10:40, it is 20 minutes to 11.

If it is 2:55, it is 5 minutes to 3.

If it is 12:35, it is 25 minutes to 1.

If it is 1:58, it is 2 minutes to 2.

A.M. or P.M.?

Breakfast A.M. Bed Time P.M. Homework P.M.

Wake Up A.M. Dinner Time P.M. Leave School P.M.

P.O. 3.05.01.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

DIVISION

△ 6	○ 3	□ 2
Dividend	Divisor	Quotient

$$3\overline{)6}^{\,2} \qquad 6 \div 3 = 2$$

Write the number for each term.

$15 \div 3 = 5$

5 is the quotient.

$4\overline{)12}^{\,3}$

3 is the quotient.

$2\overline{)8}^{\,4}$

2 is the divisor.

$20 \div 5 = 4$

20 is the dividend.

$2\overline{)6}^{\,3}$

2 is the divisor.

$10 \div 5 = 2$

2 is the quotient.

Write the term that identifies the number.

$2\overline{)10}^{\,5}$

10 is the dividend.

$8 \div 4 = 2$

2 is the quotient.

$12 \div 3 = 4$

3 is the divisor.

$5\overline{)15}^{\,3}$

3 is the quotient.

P.O. 3.05.01.03

NAME: _____ CLASS: _____ DATE: _____

Complete the division examples below.

$2\overline{)6}$

-2 1 two was subtracted

4

-2 1 two was subtracted

2

-2 1 two was subtracted

0

3 twos were subtracted.

$6 \div 2 = 3$

$3\overline{)6}$

-3 1 three was subtracted

3

-3 1 three was subtracted

0

2 threes were subtracted.

$6 \div 3 = \boxed{2}$

$5\overline{)15}$

-5 1 five was subtracted

10

$-\boxed{5}$ 1 five was subtracted

5

$-\boxed{5}$ 1 five was subtracted

$\boxed{0}$

3 fives were subtracted.

$\boxed{15} \div \boxed{5} = \boxed{3}$

$2\overline{)8}$

-2 1 two was subtracted

$\boxed{6}$

-2 1 two was subtracted

$\boxed{4}$

-2 1 two was subtracted

$\boxed{2}$

-2 1 two was subtracted

$\boxed{0}$

4 twos were subtracted.

$\boxed{8} \div \boxed{2} = \boxed{4}$

CHALLENGE!

Bob bought 3 red balloons, 4 yellow balloons, and 8 green balloons. He will share them equally with 2 friends. How many balloons will Bob and each of his friends have? 5

P.O. 3.05.01.04

NAME: _____ CLASS: _____ DATE: _____

Complete each example by filling in the missing numeral.

$8 \div 2 = \boxed{4}$	$\boxed{4} \times 2 = 8$
$10 \div 2 = \boxed{5}$	$\boxed{5} \times 2 = 10$
$9 \div 3 = \boxed{3}$	$3 \times \boxed{3} = 9$
$15 \div 3 = \boxed{5}$	$\boxed{5} \times 3 = 15$
$12 \div 3 = \boxed{4}$	$\boxed{4} \times 3 = 12$
$12 \div 4 = \boxed{3}$	$3 \times 4 = \boxed{12}$
$25 \div 5 = \boxed{5}$	$\boxed{5} \times 5 = 25$
$14 \div 2 = \boxed{7}$	$7 \times 2 = \boxed{14}$

Do you remember?

Round these numbers to the nearest 100.

356 rounds to 400

629 rounds to 600

160 rounds to 200
309 rounds to 300
74 rounds to 100
478 rounds to 500

937 rounds to 900
571 rounds to 600
770 rounds to 800

SHARPENING YOUR SKILLS

Units 12, 13

Name: _____ **Class:** _____ **Date:** _____

1. Which number will make both examples true?

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \square \end{array} \qquad 5 \times 2 = \square$$

3 (a) 7 (b) ● 10 (d) 14

2. Write the product for each example.

$3 \times 2 = \boxed{6}$ $4 \times 3 = \boxed{12}$

$1 \times 5 = \boxed{5}$ $2 \times 4 = \boxed{8}$

3. Use the multiplication table to find the hidden products.

X	0	1	2	3	4	5
0	0	0	0	0	0	0
1	0	1	2	3	4	5
2	0	2	4	■	8	10
3	0	▲	6	9	12	☺
4	0	4	8	12	16	20
5	0	5	10	15	20	●

■ = 6 ▲ = 3

● = 25 ☺ = 15

4. If 4 x 2 = 8, then $\square$ x 4 = 8.

2 (●) 4 (b) 6 (c) 14 (d)

5. Which example shows how many twos there are in twelve?

(●) 12 ÷ 2 = 6 (c) 6 + 6 = 12

(b) 6 x 2 = 12 (d) $\square$ + 5 = 12

6. In 20 ÷ 5 = 4, the 4 is called the _____.

(a) divisor (●) quotient

(b) dividend (d) product

7. Look at the division example.

$$\begin{array}{r|l} 4 & 12 \\ -4 & \\ \hline 8 & \\ -4 & \\ \hline 4 & \\ -4 & \\ \hline 0 & \end{array}$$

1 four was subtracted

1 four was subtracted

1 four was subtracted

This shows that there are 3 fours in 12.

8. Complete the chart by writing the inverse number facts.

12 ÷ 3 = 4	3 x 4 = 12
8 ÷ 4 = 2	4 x 2 = 8
6 ÷ 2 = 3	2 x 3 = 6

9. Which three numerals can make a multiplication and a division fact?

(a) 3, 4, 5 (c) 2, 4, 6

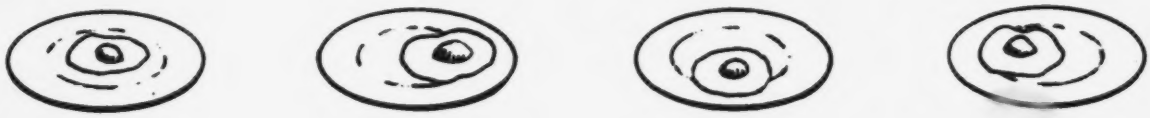
(●) 2, 5, 10 (d) 3, 4, 7

P.O. 3.04.02.01,.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

RULE: The product of any number multiplied by a factor of 1 equals that number.



There are 4 dishes. There is 1 egg on each dish. Circle the multiplication sentence that describes the story.

4 x 0 = 4 (4 x 1 = 4) 4 x 4 = 4

Complete each number sentence.

5 x 1 = 5 1 x 1 = 1

7 x 1 = 7 1 x 25 = 25

1 x 10 = 10 15 x 1 = 15

RULE: When any number is multiplied by 0, the product is always 0.

Complete each number sentence.

3 x 0 = 0 25 x 0 = 0

1 x 0 = 0 0 x 10 = 0

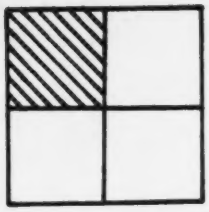
0 x 8 = 0 19 x 0 = 0

There are 5 empty cookie jars. How many cookies are there in all? 0

P.O. 3.06.01.01

NAME:_____ CLASS:_____ DATE:_____

Follow the directions in each part.



One-fourth ($\frac{1}{4}$) of this square is shaded.

The numerator $\frac{1}{\ }$ is the shaded part.

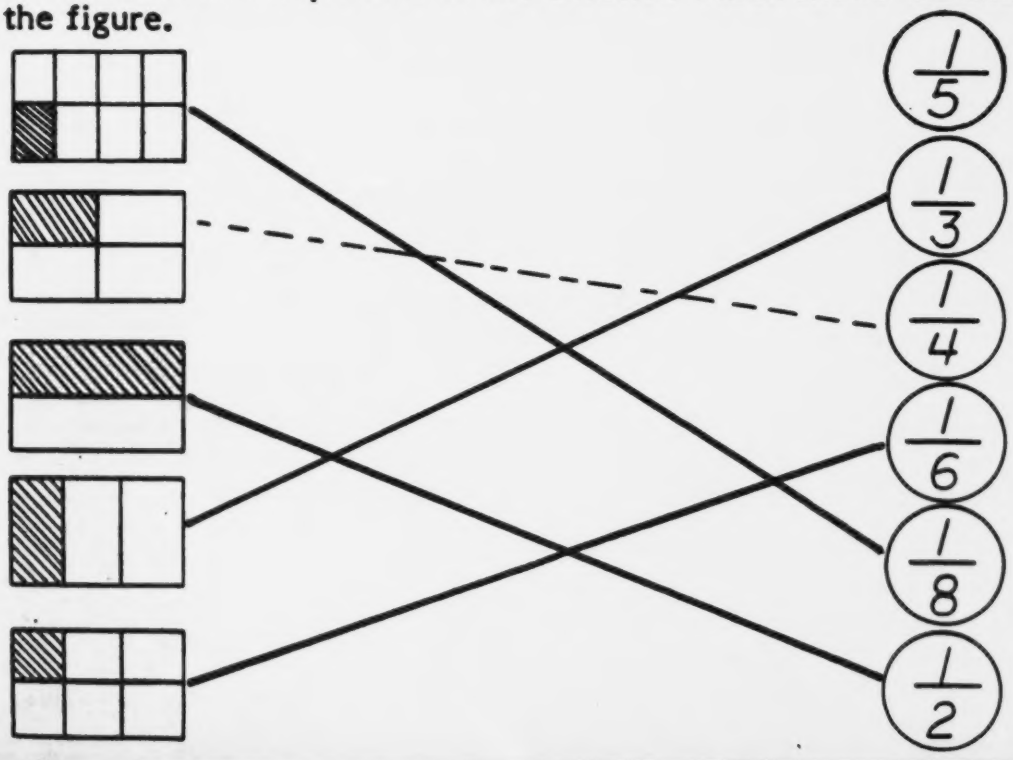
The denominator $\frac{\ }{4}$ is the total number of parts.

Cross out the word which does not belong.

The 1 in the fraction $\frac{1}{4}$ is the (numerator, ~~denominator~~).

The 4 in the fraction $\frac{1}{4}$ is the (~~numerator~~, denominator).

Draw a line from the picture to the fraction which shows the shaded part of the figure.

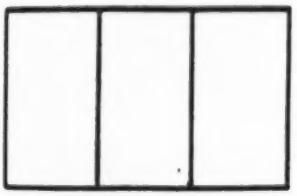


P.O. 3.06.01.02

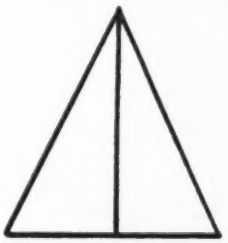
NAME:_____ CLASS:_____ DATE:_____

How many parts of each figure are needed to make the whole figure?

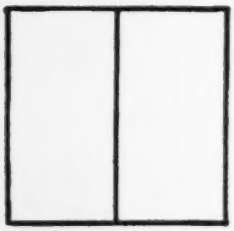
4 fourths



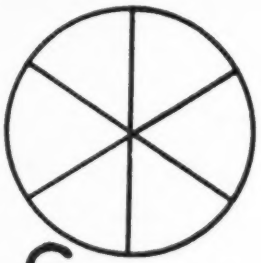
3 thirds



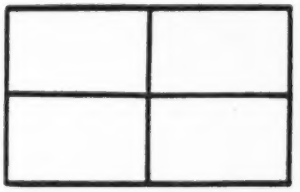
2 halves



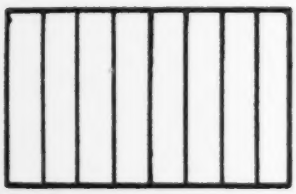
2 halves



6 sixths

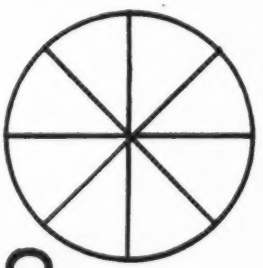


4 fourths



8 eighths

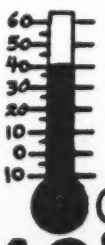
4 fourths



8 eighths

Do you remember?

15°C



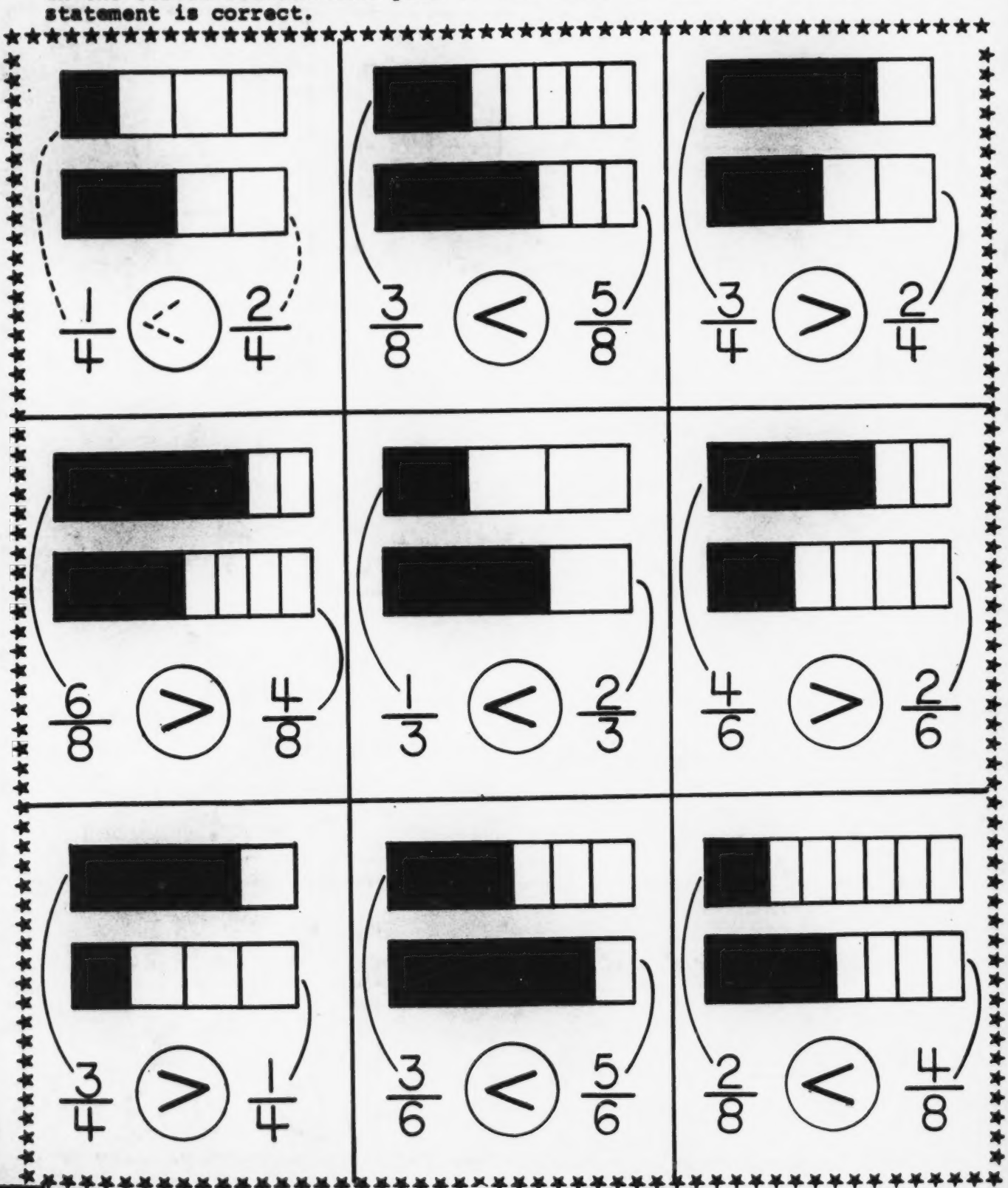
40°C

20°C

P.O. 3.06.01.03

NAME: _____ CLASS: _____ DATE: _____

Draw a line from the fraction to its matching picture. Write > or < in the circle between each pair of fractions so that the resulting statement is correct.

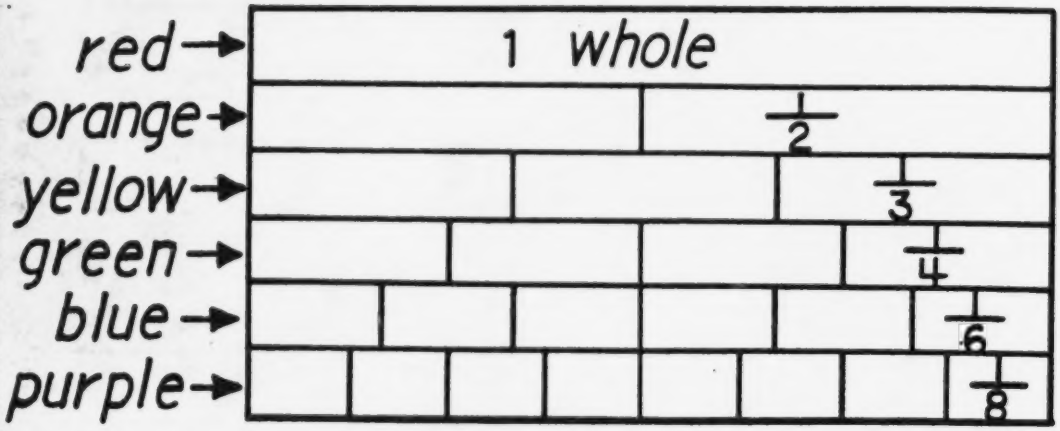


3.06.01.04

P.O._____

NAME:_____ CLASS:_____ DATE:_____

Color each fraction bar. Use the fraction bars to answer the questions.



$\frac{2}{4} = \frac{\square 1}{2}$	$\frac{4}{8} = \frac{\square 1}{2}$
$\frac{2}{6} = \frac{\square 1}{3}$	$\frac{2}{3} = \frac{\square 4}{6}$
$\frac{2}{2} = \frac{\square 1}{\text{WHOLE}}$	$\frac{4}{8} = \frac{\square 1}{2}$

Do you remember?

526 = 5 hundreds + 2 tens + 6 ones

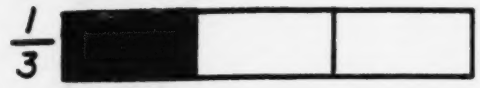
870 = 8 hundreds + 7 tens + 0 ones

639 = 6 hundreds + 3 tens + 9 ones

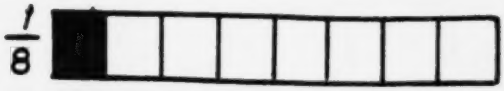
P.O. 3.06.01.04

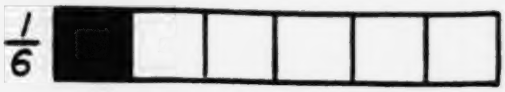
NAME: _____ CLASS: _____ DATE: _____

Color the part named by the fraction. Write the symbol > or < in each circle to form correct number sentences.



1/6 < 1/3

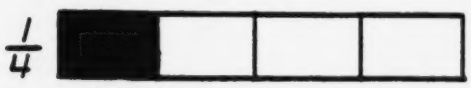


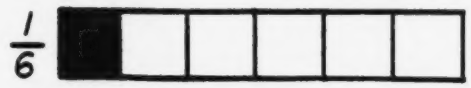


1/8 < 1/6

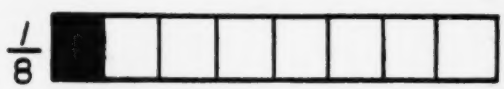
1/3 > 1/4

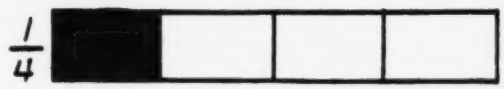
1/3 < 1/2





1/4 > 1/6





1/8 < 1/4

Do you remember?

Write these numbers in decreasing order.

361 874 519 714 436 207

decreasing order 874, 714, 519, 436, 361, 207

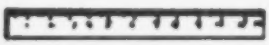
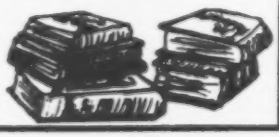
P.O. 3.10.04.01

NAME: _____ CLASS: _____ DATE: _____

Complete the table by using a scale to weigh each object.

ANSWERS MAY VARY.

Scale

object	nearest ½ pound	object	nearest ½ pound
dictionary		pencils	
ruler 		milk	
box of crayons		plant	
shoe		books 	

CHALLENGE!

Two pounds of strawberries cost $3.00. How much does one pound of strawberries cost? $1.50

How much do three pounds of strawberries cost? $4.50

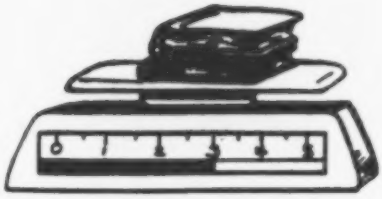
How much more do three pounds of strawberries cost than one pound of strawberries? $3.00

P.O. 3.10.04.02

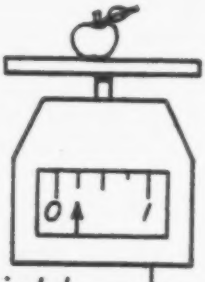
NAME: _____ CLASS: _____ DATE: _____

Write the weight of each object to the nearest pound, $\frac{1}{2}$ pound, or $\frac{1}{4}$ pound.

Weight= $2\frac{1}{4}$ lbs.



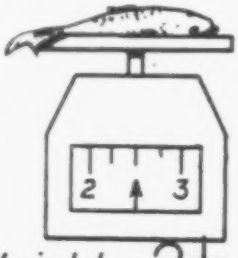
Weight= 3 lbs.



Weight= $\frac{1}{4}$ lb.

Weight= $3\frac{1}{2}$ lbs.

Weight= $1\frac{1}{4}$ lbs.



Weight= $2\frac{1}{2}$ lbs.

Do you remember?

Round each number to the nearest ten.

237 rounds to 240. 198 rounds to 200.

362 rounds to 360. 721 rounds to 720.

453 rounds to 450. 906 rounds to 910.

825 rounds to 830. 803 rounds to 800.

SHARPENING YOUR SKILLS

Units 14, 15, 16

Name: _____ **Class:** _____ **Date:** _____

1. Which number makes each number sentence true?

$3 \times \square = 3$ $\square \times 3 = 3$

12 (a) 6 (b) 1 ● 0 (d)

2. When a number is multiplied by zero, the product is _____.

(e) one more than the number
(f) the number
(g) one
● zero

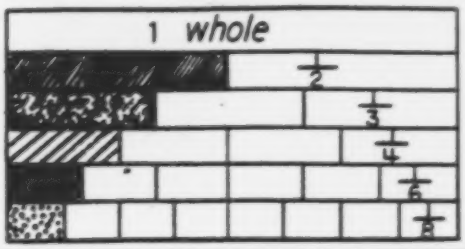
3. In the fraction $\frac{3}{5}$, the denominator is _____.

2 (a) 3 (b) 5 ● 8 (d)

4. What kind of line can be drawn to change the model from fourths to eighths?

(e) one diagonal line
(f) one vertical line
● one horizontal line
(h) none of these

Use this chart to answer questions 5 through 7.



5. $1 \bigcirc \frac{1}{2}$

> (a) < ● = (c) none of these (d)

6. $\frac{3}{8} \bigcirc \frac{5}{8}$

> (e) < ● = (g) none of these (h)

7. $\frac{1}{4} \bigcirc \frac{5}{6}$

> (a) < ● = (c) none of these (d)

8. How much do the cubes weigh?

(e) more than a pound
● less than a pound
(g) one pound
(h) 12 pounds

P.O. 3.11.01.01-.02

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Solve each open number sentence.

$12 \times 2 = \boxed{24}$ $\quad\quad$ $\boxed{8} + 10 = 18$

$5 \times \boxed{3} = 15$ $\quad\quad$ $14 - 6 = \boxed{8}$

$16 \div 8 = \boxed{2}$ $\quad\quad$ $4 \times \boxed{5} = 20$

$\boxed{18} - 10 = 8$ $\quad\quad$ $20 \div \boxed{4} = 5$

Fill in the numbers for each function machine. What number relationships did you find?

x 3	in	10	11	12	13
	out	30	33	36	39

As each input increased by one, each output increased by three.

÷ 3	in	21	18	15	12
	out	7	6	5	4

As each input decreased by three, each output decreased by one.

x 6	in	2	3	4	5
	out	12	18	24	30

As each input increased by one, each output increased by six.

÷ 4	in	28	24	20	16
	out	7	6	5	4

As each input decreased by four, each output decreased by one.

P.O. 3.01.05.01-.02

NAME: _____ CLASS: _____ DATE: _____

Complete each part below.

Write the sums on the table below. Circle the odd sums. Shade the even sums.

+	1	2	3	4	5
1		(3)	4	(5)	6
2	(3)	4	(5)	6	(7)
3	4	(5)	6	(7)	
4	(5)	6	(7)	8	(9)
5	6	(7)	8	(9)	10

Find each sum or difference. Write odd or even next to each addend and sum.

4 even + 2 even (6) even	5 odd + 4 even (9) odd	8 even - 5 odd (3) odd
7 odd + 3 odd (10) even	9 odd - 3 odd (6) even	6 even - 2 even (4) even

CHALLENGE! I am a number between 50 and 70. I am greater than 57. I am less than 59. What number am I? 58

P.O. 3.02.01.01

NAME: _____ CLASS: _____ DATE: _____

Find the number of treats at each location. Write two examples for each.

LOCATION 1

FRUIT

How many pieces of fruit in all?

$\begin{array}{r} 45 \\ +23 \\ \hline 68 \end{array}$ $\begin{array}{r} 23 \\ +45 \\ \hline 68 \end{array}$

There are 68 pieces of fruit in all.

LOCATION 2

BALLOONS

How many balloons in all?

$\begin{array}{r} 123 \\ +231 \\ \hline 354 \end{array}$ $\begin{array}{r} 231 \\ +123 \\ \hline 354 \end{array}$

There are 354 balloons in all.

LOCATION 3

COOKIES

What is the total number of cookies?

$\begin{array}{r} 143 \\ +225 \\ \hline 368 \end{array}$ $\begin{array}{r} 225 \\ +143 \\ \hline 368 \end{array}$

There are 368 cookies in all.

LOCATION 4

PARTY FAVORS

How many party favors were bought?

$\begin{array}{r} 162 \\ +312 \\ \hline 474 \end{array}$ $\begin{array}{r} 312 \\ +162 \\ \hline 474 \end{array}$

There are 474 party favors in all.

Complete each number sentence.

31	+	46	=	46	+	31	753	+	174	=	174	+	753
72	+	13	=	13	+	72	*	+	205	=	205	+	*
60	+	27	=	27	+	60	448	+	315	=	315	+	448
33	+	49	=	49	+	33	116	+	305	=	305	+	116

*The same numeral should be in both boxes.

P.O. 3.02.01.02

NAME: _____ CLASS: _____ DATE: _____

Find the total number of vehicles to pass through each toll booth.
Use parentheses to show which numbers are added together first.

Booth

Type of Vehicle	A	B	C	D	E	F
Cars	200	100	9	400	300	600
Buses	30	50	80	5	7	70
Trucks	7	6	200	60	50	2
Total Number of Vehicles	237	156	289	465	357	672

A. (200+30)+7=237

B. (100+50)+6=156

C. (9+80)+200=289

D. (400+5)+60=465

E. (300+7)+50=357

F. (600+70)+2=672

CHALLENGE!

Rewrite 3000 + 500 + 80 + 7 = ☐ in as many different ways as you can without changing its total value.

* 3000 + 80 + 500 + 7 = ☐

* Accept any of the 24 possible arrangements.

SHARPENING YOUR SKILLS

Units 17, 18, 19

Name: _____ **Class:** _____ **Date:** _____

1. 6 + ☐ = 15

8 (a) 6 (b) ● 9 (c) 7 (d)

2. There are 17 boys and 8 girls. How many more boys than girls are there ? Which open sentence fits the story?

(a) 17 + 8 = ☐
(b) 8 + 17 = ☐
(c) 17 x 8 = ☐
● 17 - 8 = ☐

3. ☐ x 3 = 15

12 (a) ● 5 (c) 8 (d) not here

4.

BICYCLES	1	2	3	4
WHEELS	2	4	6	?

How many wheels will 4 bicycles have?

7 (a) ● 8 (c) 10 (d) 9

5.

IN	20	25	30
OUT	25	30	?

What is the missing number in the table?

● 35 (a) 31 (b) 20 (c) not here (d)

6. Fill in odd or even.

The sum of two odd numbers is an *even* number.

The difference between an odd number and an even number is an *odd* number.

The sum of an even number and an odd number is an *odd* number.

7. 10 + 12 = 12 + ☐

2 (a) 22 (b) ● 10 not here (d)

8. ☐ + 123 = 123 + 35

● 35 (a) (c) 123
(b) 158 (d) not here

9. Which number sentence is part of the same number family as 13 + 12 = 25?

(a) 13 - 12 = 25
● 12 + 13 = 25
(c) 13 x 12 = 25
(d) not here

10. (20 + 10) + 5 = 20 + (☐ + 5)

20 (a) ● 10 (c) 5 not here (d)

P.O. 3.02.02.01,.03

NAME:_____ CLASS:_____ DATE:_____

Solve each example and problem below.

Everyday the milkman delivers milk to a school on 115th Street. Yesterday, he delivered 425 containers of chocolate milk and 362 containers of plain milk. How many containers of milk did he deliver yesterday?

solve check

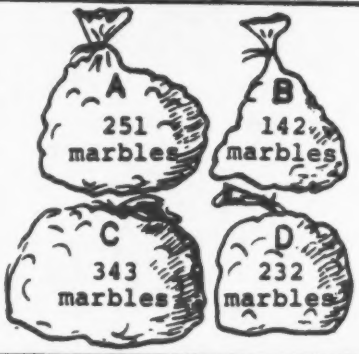
787 containers of milk

A trucker delivered books to school. He delivered 123 science books and 142 math books to Room 235. How many books did the trucker deliver?

solve check

265 books

Marco wants to share his marbles with his sister Maria by giving her 2 bags of marbles containing 483 marbles. Which 2 bags of marbles should Marco give to Maria?



solve check

bag A and bag D

solve	check	solve	check
413 +342 755	342 +413 755	804 +192 996	192 +804 996
345 +422 767	422 +345 767	718 +241 959	241 +718 959

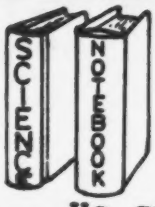
P.O. 3.02.02.02-.03

NAME: _____ CLASS: _____ DATE: _____

Solve each example and problem below.

solve	check	solve	check
$2.41 +3.42 $5.83	$3.42 +2.41 $5.83	$4.02 +3.40 $7.42	$3.40 +4.02 $7.42
solve	**check**	**solve**	**check**
$1.22 +5.23 $6.45	$5.23 +1.22 $6.45	$4.31 +2.14 $6.45	$2.14 +4.31 $6.45

At a book sale Kevin bought a 135 page science book for $1.23 and a 150 page notebook for $1.54. How much did he spend in all?



solve **check**

He spent $2.77 in all.

Mrs. Ward bought milk for $1.25 and cookies for $1.12. How much did she spend in all?

solve **check**

She spent $2.37 in all.

CHALLENGE!

At the school book fair, Joan bought a book and an item with which she could write. She spent a total of $2.48. Which two items did she buy?

solve **check**

She bought the Fairy Tales book and the crayons.

BOOK FAIR PRICE LIST:	
SCIENCE BOOKS	$1.23
MATH BOOKS	$1.42
FAIRY TALES	$1.34
CRAYONS	$1.14
PENCILS	$1.23
PENS	$1.35

P.O. 3.03.01.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Check Mary's test paper. If an answer is correct, place a ✓ in the box. If an answer is incorrect, place an X in the box and redo the example on a separate sheet of paper. Give Mary 10 points for each correct answer.

P.S. Class — Grade 80% Math Test — Mary January 3

① 575 − 242 = 333 ☑ ✓ check: 333 + 242 = 575	⑥ 678 − 214 = 464 ☑ ✓ check: 464 + 214 = 678
② 385 − 214 = 171 ☑ ✓ check: 171 + 214 = 385	⑦ 273 − 121 = 141 ☒ X check: 141 + 121 = 262
③ 786 − 421 = 365 ☑ ✓ check: 365 + 421 = 786	⑧ 418 − 104 = 314 ☑ ✓ check: 314 + 104 = 418
④ 935 − 413 = 522 ☑ ✓ check: 522 + 413 = 935	⑨ 675 − 314 = 361 ☑ ✓ check: 361 + 314 = 675

⑤ On Monday 645 bags of popcorn were sold at the circus. On Tuesday 312 bags of popcorn were sold. How many more bags were sold on Monday?

645 − 312 = 957 more bags were sold on Monday.

⑩ The elephant trainer bought 849 pounds of peanuts for his elephants. The elephants ate 321 pounds of peanuts on Monday. How many pounds of peanuts were left?

849 − 321 = 528 pounds of peanuts were left.

Do you remember?

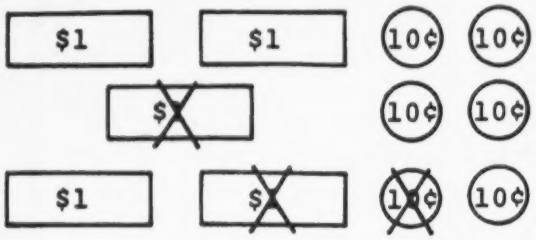
Guess the number.
It is a three-digit number.
Its numbers are in counting order.
It is an even number.
The sum of the digits is 9.
The number is 234.

Guess the number.
It is a two-digit number.
Both digits are the same.
It is an odd number.
The sum of the digits is 10.
The number is 55.

P.O. 3.03.01.02-.03

NAME: _____ CLASS: _____ DATE: _____

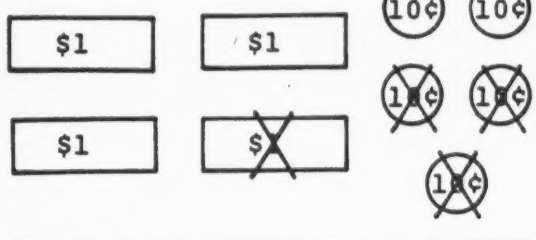
Write a subtraction example for each group of coins and bills. Check.



$5.65
-2.13
$3.52

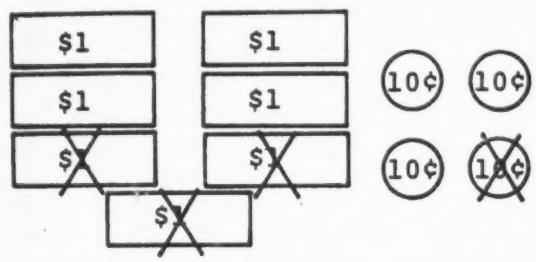
check

$3.52
+2.13
$5.65



$4.58
-1.32
$3.26

$3.26
+1.32
$4.58

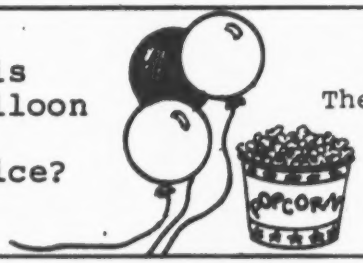


$7.44
-3.14
$4.30

$4.30
+3.14
$7.44

Solve each problem and check your answer.

A bucket of popcorn sells for $2.75. A circus balloon sells for $1.25. What is the difference in price?



The difference is $1.50.

Veronica had $9.99. She bought a clown doll for $4.36. How much money did she have left?

She had $5.63 left.

P.O. 3.02.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Draw a smile on the face ☺ if you need to regroup or exchange.
Solve each problem and check your work. ☑

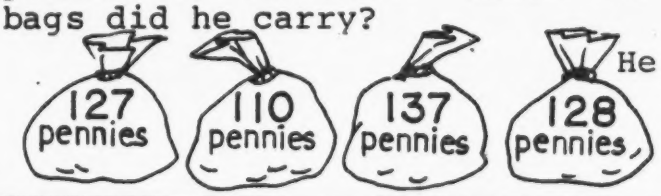
solve	check
236 + 127 = 363 ☑	127 + 236 = 363

solve	check
158 + 224 = 382 ☑	224 + 158 = 382

solve	check
615 + 148 = 763 ☑	148 + 615 = 763

solve	check
234 + 132 = 366 ☑	132 + 234 = 366

Peppy owns the pizza store. He carried two bags containing 265 pennies to the bank. Which two bags did he carry?



solve

He carried the 137 pennies and the 128 pennies. ☑

check

The first day of vacation Mr. Walker drove the family car 127 miles. The next day Mrs. Walker drove the car 136 miles. How far did they travel altogether?

solve

They traveled 263 miles. ☑

check

Do you remember?

Color the fractional equivalent and complete the fraction.

$\frac{3}{4} = \frac{\boxed{6}}{8}$

$\frac{2}{3} = \frac{\boxed{4}}{6}$

P.O. 3.03.02.01-.02

NAME: _____ CLASS: _____ DATE: _____

Find the missing numbers. Complete the examples by filling in the ☐ with the correct number.

$$\begin{array}{rcl} 63 & = & \boxed{60} + 3 \\ -\ 47 & = & -(40 + \boxed{7}) \end{array} = 50 + \boxed{13}$$

$$= -(40 + \boxed{7})$$

$$= 10 + 6 = \boxed{16}$$

$$\begin{array}{rcl} 82 & = & 80 + \boxed{2} \\ -\ 35 & = & -(\boxed{30} + 5) \end{array} = \boxed{70} + 12$$

$$= -(30 + \boxed{5})$$

$$= \boxed{40} + 7 = \boxed{47}$$

Subtract and check.

subtract	check	subtract	check
$\begin{array}{r} 6\ 12 \\ \not{7}\not{2} \\ -\ 39 \\ \hline 33 \end{array}$	$\begin{array}{r} 33 \\ +\ 39 \\ \hline 72 \end{array}$	$\begin{array}{r} 7\ 13 \\ \not{8}\not{3} \\ -\ 57 \\ \hline 26 \end{array}$	$\begin{array}{r} 26 \\ +57 \\ \hline 83 \end{array}$
$\begin{array}{r} 4\ 11 \\ \not{5}1 \\ -\ 17 \\ \hline 34 \end{array}$	$\begin{array}{r} 34 \\ +17 \\ \hline 51 \end{array}$	$\begin{array}{r} 3\ 16 \\ \not{4}\not{6} \\ -\ 28 \\ \hline 18 \end{array}$	$\begin{array}{r} 18 \\ +28 \\ \hline 46 \end{array}$

P.O. 3.03.02.02-.04

NAME: _____ CLASS: _____ DATE: _____

Solve and check the examples below.
Did you regroup? Write Y for yes if you regrouped.
Write N for no if you did not regroup.

Y 81 (11) ~~91~~ - 38 53 check 53 +38 91	N 47 - 26 21 check 21 +26 47	Y 53 - 18 35 check 35 +18 53
Y 84 - 37 47 check 47 +37 84	N 62 - 40 22 check 22 +40 62	Y 80 - 27 53 check 53 +27 80

Find each error. Redo and check each example.

Ⓐ 52¢ - 16¢ 68¢ X	Ⓑ 71¢ - 24¢ 53¢ X	Ⓒ 5 17 ~~6 7~~¢ - 21¢ 316¢ X
~~4 12~~ 52¢ - 16¢ 36¢ check 36¢ +16¢ 52¢	71¢ -24¢ 47¢ check 47¢ +24¢ 71¢	67¢ - 21¢ 46¢ check 46¢ +21¢ 67¢

Which number sentence would you use to solve this problem?

Max had 85¢. He bought an 8 ounce box of raisins for 69¢. How much money does he have left?

ⓐ 85¢ + 69¢ = ☐ ● 85¢ - 69¢ = ☐

ⓑ 69 - 8 = ☐ ⓓ 69 + 8 = ☐

Complete by filling in the missing information.

ATTENDANCE			
	Boys	Girls	Total
Monday	17	[15]	32
Tuesday	[9]	19	28
Wednesday	17	[14]	31
Thursday	[8]	19	27
Friday	15	[15]	30

SHARPENING YOUR SKILLS

Units 21, 22, 23

Name: _____ Class: _____ Date: _____

Use the table below to answer questions 1, 2, and 3.

Item	Cost
pencil	$ .42
notebook	$1.23
ruler	$ .91
bookbag	$5.20

1. How much do the bookbag and the notebook cost together?

$6.43

2. David has $9.95. He bought the bookbag and the notebook. How much money does he have left?

$3.52

3. How much more does the ruler cost than the pencil?

$.49

4.
$$\begin{array}{r} 84¢ \\ -37¢ \end{array}$$

47 (a) 53¢ (b) ● 47¢ 57 (d)

5.

solve	check
$\begin{array}{r} 261 \\ +384 \\ \hline 645 \end{array}$	$\begin{array}{r} 384 \\ +261 \\ \hline 645 \end{array}$

P.S. 321 has 72 classrooms. P.S. 41 has 36 classrooms.

6. How many more classrooms are in P.S. 321 than in P.S. 41?

36

7. If 15 classrooms are closed in P.S. 321 how many classrooms are open?

57 classrooms are open.

8. Match the expanded subtraction to a standard subtraction.

$$\begin{array}{r} 90 + 2 \\ -(30 + 8) \end{array} = \begin{array}{r} 80 + 12 \\ -(30 + 8) \\ \hline 50 + 4 \end{array}$$

54

$$\begin{array}{r} 92 \\ -38 \end{array} \quad \begin{array}{r} 902 \\ -308 \end{array} \quad \begin{array}{r} 82 \\ -48 \end{array} \quad \begin{array}{r} 83 \\ -29 \end{array}$$

● (f) (g) (h)

9. Peter has $8.21. If he earns $1.42, how much money will he have?

(a) $9.23

(b) $7.21

● $9.63

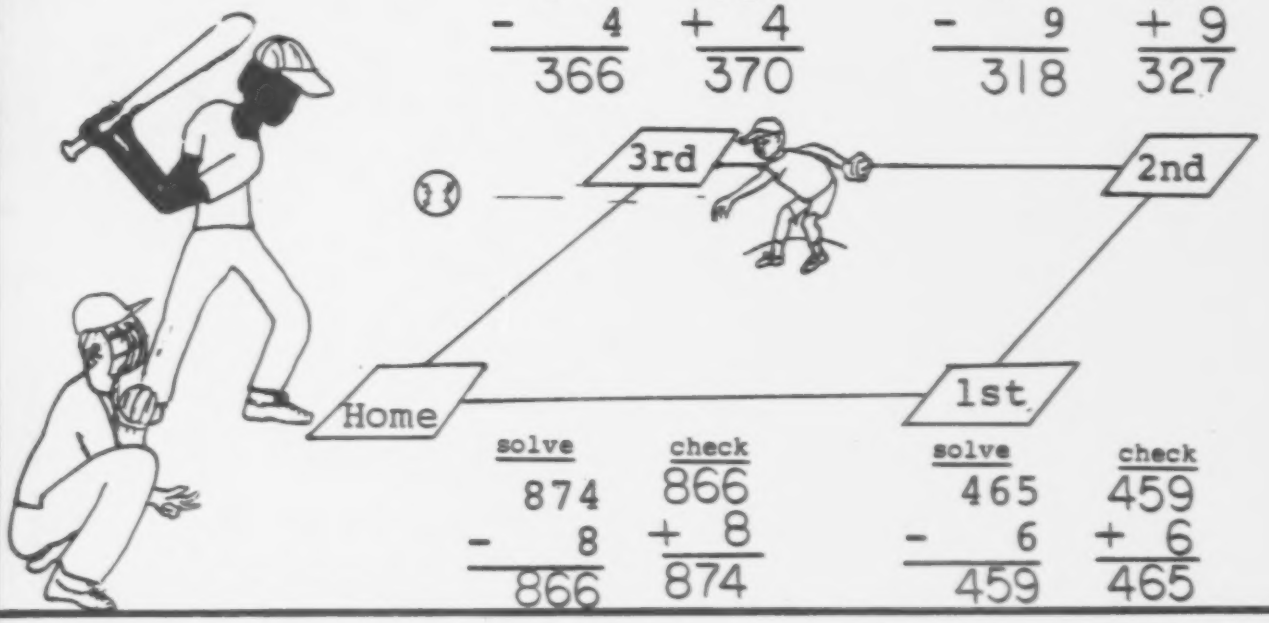
(d) $8.63

P.O. 3.03.03.01, .02, .04

NAME:_____ CLASS:_____ DATE:_____

1. See if you can hit a home run. Solve and check each example.
2. Solve and check each story problem.

Batter Up



solve	check	solve	check
370	366	327	318
- 4	+ 4	- 9	+ 9
366	370	318	327

solve	check	solve	check
874	866	465	459
- 8	+ 8	- 6	+ 6
866	874	459	465

1. Sam has 125 baseball cards. He gave 8 to has brother. How many does he have left?

solve check

Answer: He has 117 baseball cards left.

2. My father drove 291 miles on Monday. On Tuesday he drove 5 miles less. How many miles did he drive on Tuesday?

solve check

Answer: He drove 286 miles.

3. Max made 196 jelly donuts. He made 48 fewer chocolate donuts. How many chocolate donuts did he make?

solve check

Answer: He made 148 chocolate donuts.

4. A VCR cost $395. A cassette recorder cost $86. What was the difference in price?

solve check

Answer: The difference was $309.

P.O. 3.03.03.03-.04

NAME:_____ CLASS:_____ DATE:_____

1. Solve and check each example.
2. Solve and check each story problem.

Help Sherlock Holmes Solve The Mystery of the Missing Numbers

solve	check	solve	check
267 - 138 129	129 +138 267	$9.89 - 4.26 $5.63	$5.63 +4.26 $9.89
solve	**check**	**solve**	**check**
458 - 239 219	219 +239 458	$6.64 - 5.17 $1.47	$1.47 +5.17 $6.64

1. John ran 226 miles last year. His brother ran 117 miles. How many more miles did John run? solve check

Answer: John ran 109 more miles.

2. Haydee has 472 pennies in her bank. Her sister has 125 fewer pennies. How many pennies does her sister have? solve check

Answer: Her sister has 347 pennies.

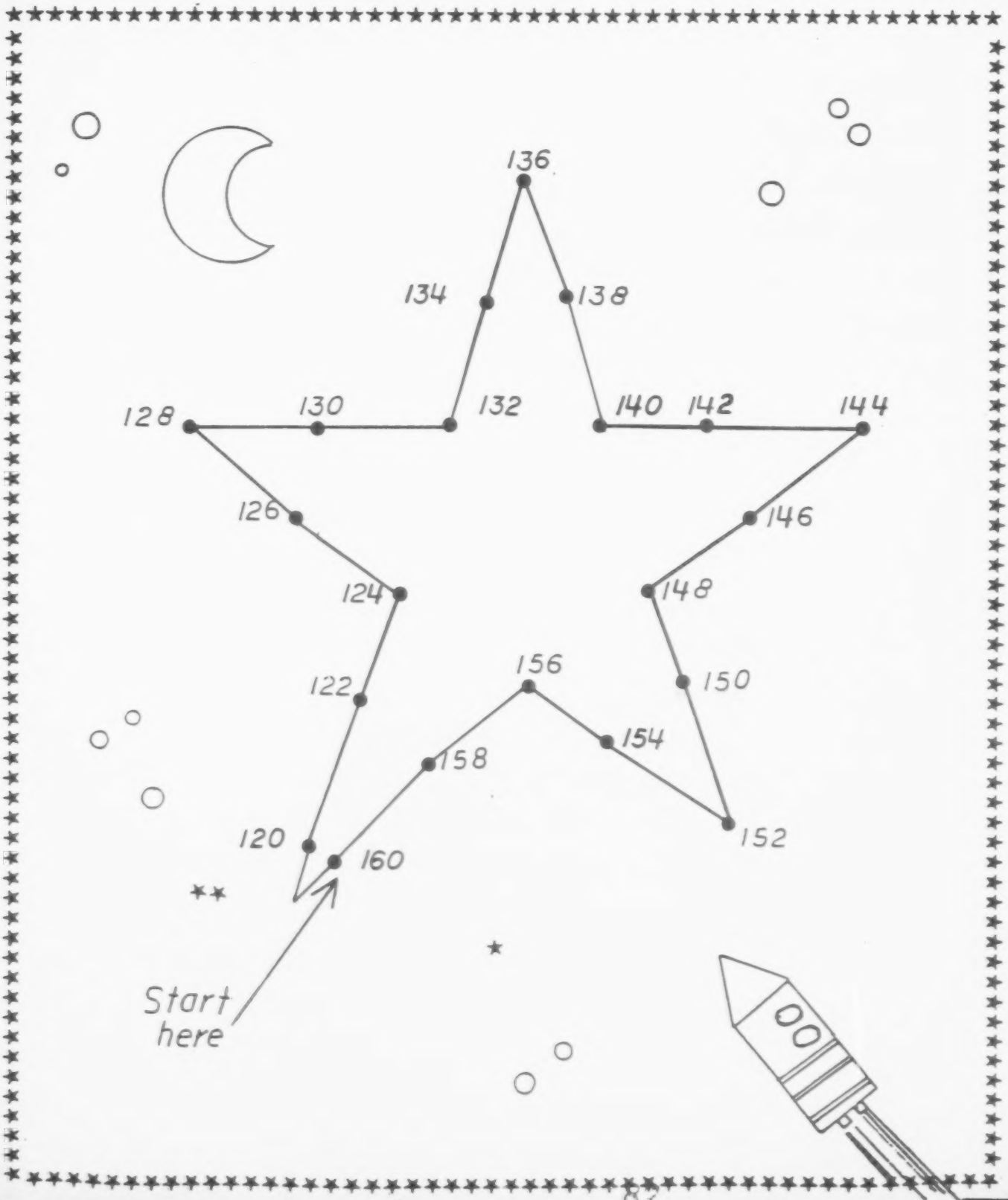
3. Ann's bicycle cost $358. Maria's bicycle cost $229. What was the difference in price between the two bicycles? solve check

Answer: The difference was $129.

P.O. 3.01.06.01

NAME: _____ CLASS: _____ DATE: _____

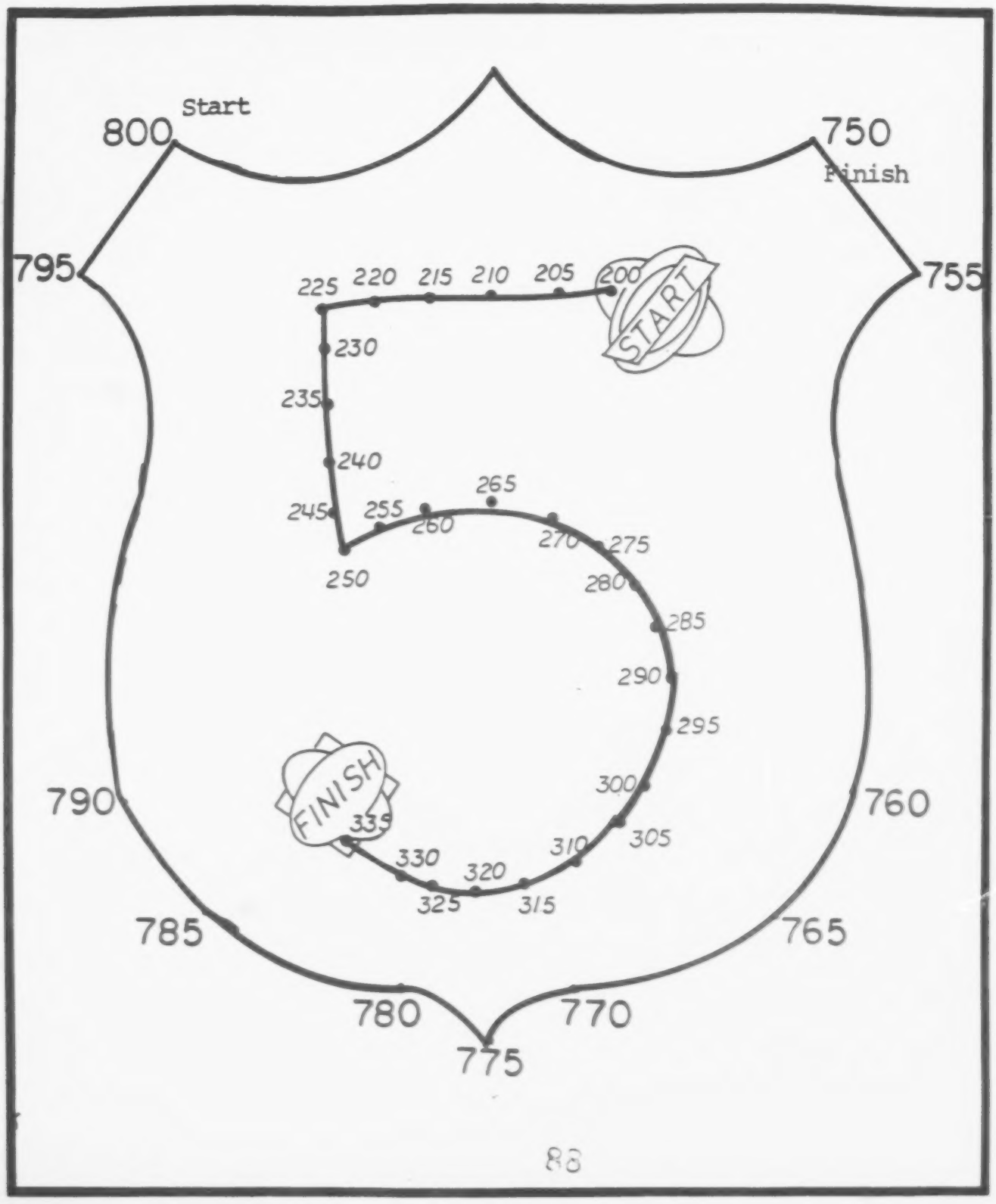
Connect the dots, counting backward by twos.
Check your work, counting forward by twos.



P.O. 3.01.06.02

NAME: _____ CLASS: _____ DATE: _____

Count forward by fives to connect the dots inside the badge.
Count backward by fives to connect the dots on the edge of the badge.



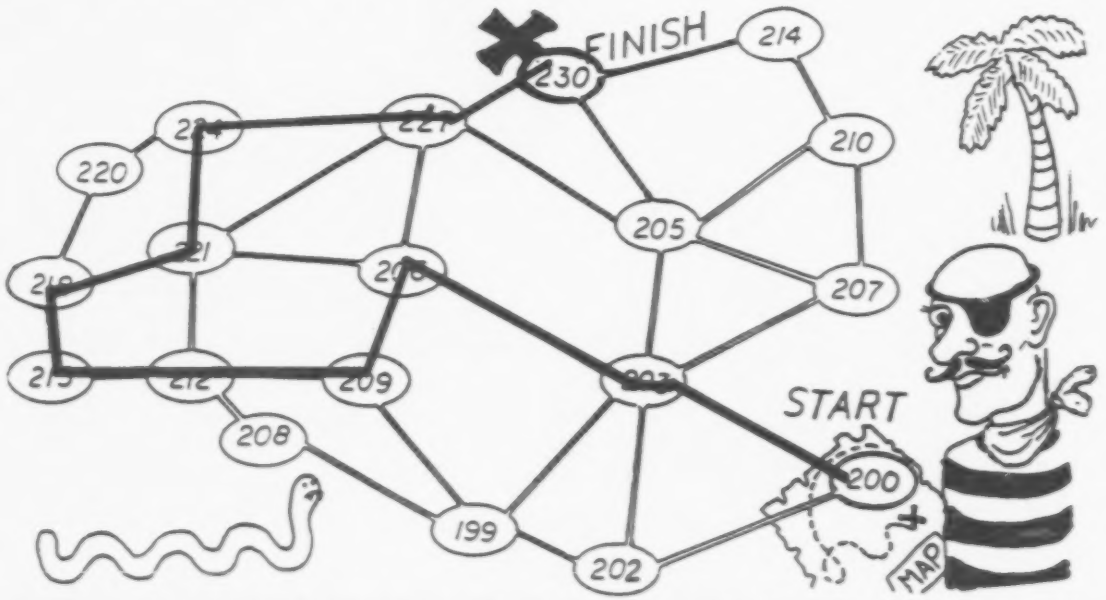
88

P.O. 3.01.06.03

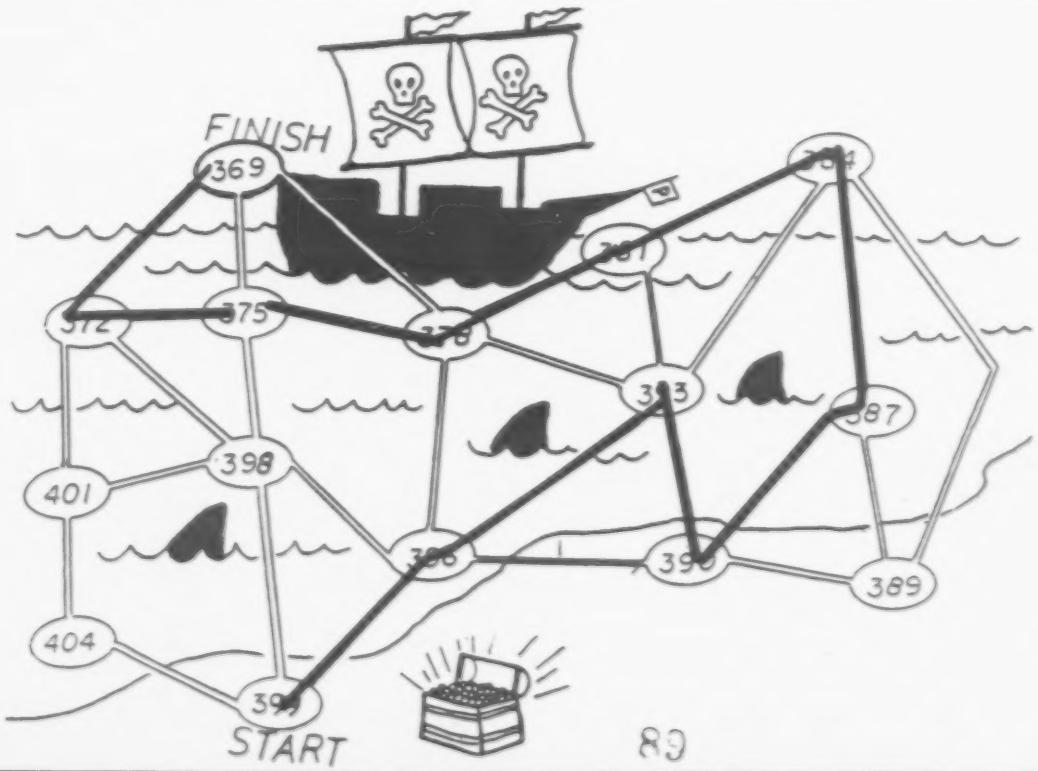
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Help the pirate find the treasure by counting forward by threes. Begin at 200.



Help him carry the treasure to his ship by counting backward by threes. Begin at 399.

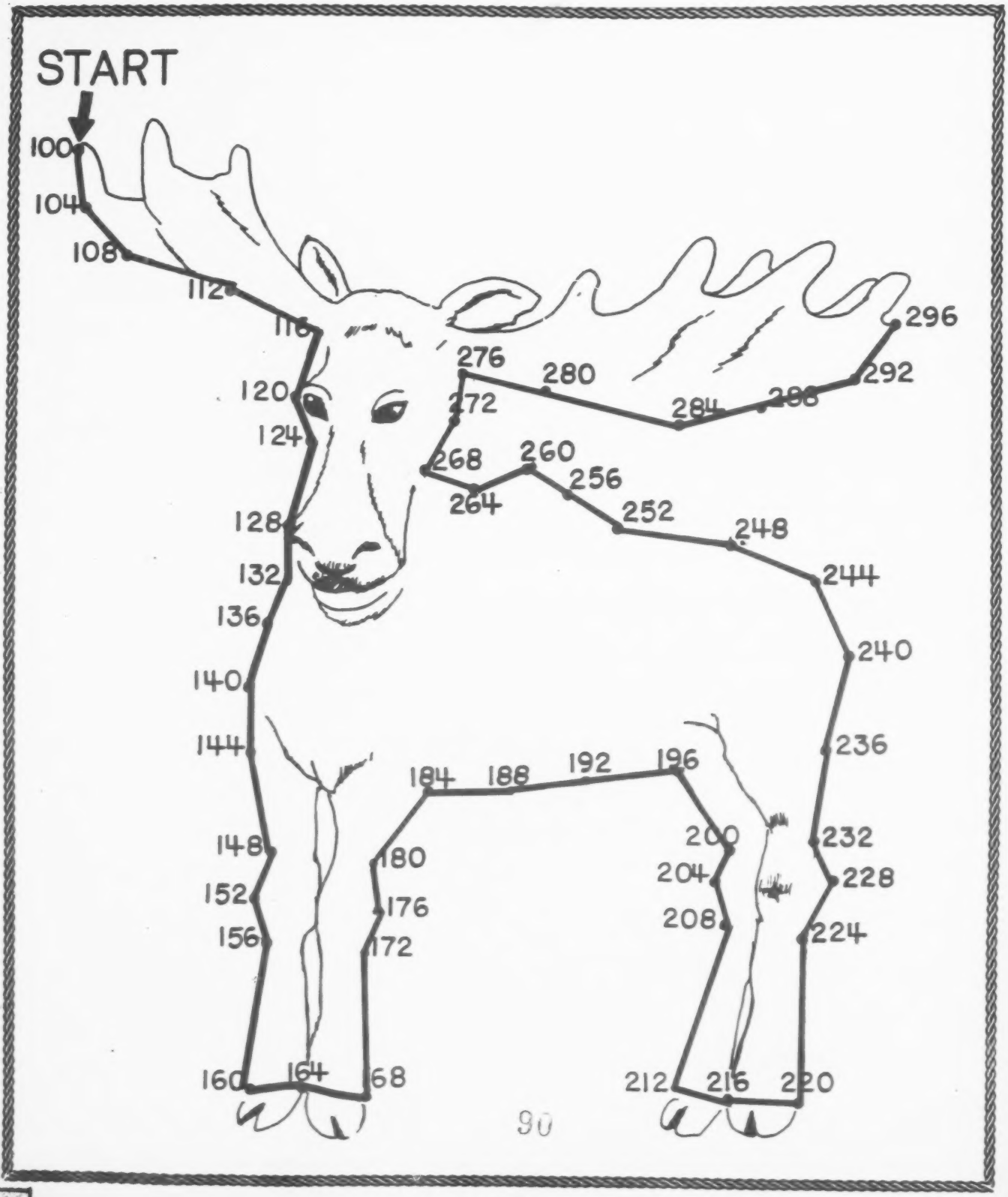


89

P.O. 3.01.06.04

NAME:_____ CLASS:_____ DATE:_____

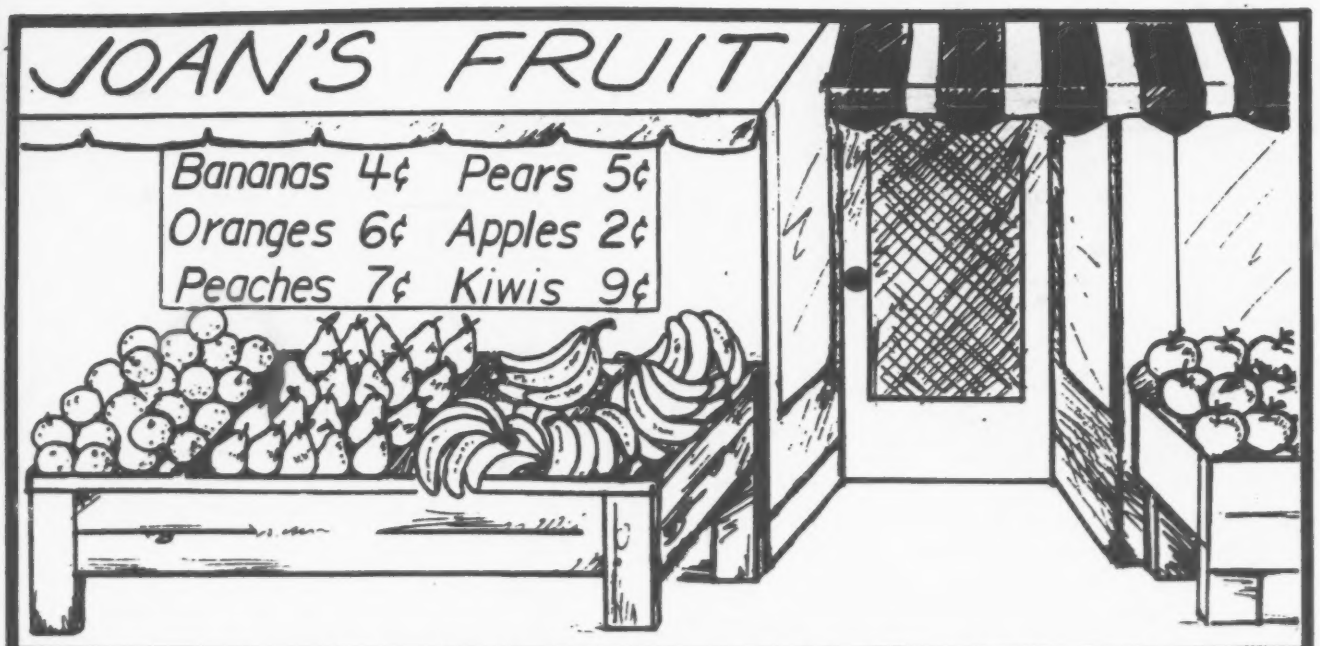
Connect the dots, counting forward by fours.
Check your work, counting backward by fours.



P.O. 3.04.03.01-.03

NAME:_____ CLASS:_____ DATE:_____

Solve these problems by using the fruit store's price list.



1. Rosa wants to buy 8 apples. How much will they cost?

   8 x 2 = 16¢

2. Tamika will buy 2 pears. How much will they cost?

   2 x 5 = 10¢

3. Doreen bought 4 apples. How much do they cost?

   4 x 2 = 8¢

4. Pat will buy 2 kiwis. How much will he spend?

   2 x 9 = 18¢

5. Paul bought 6 apples and 2 oranges. Paul paid_____.

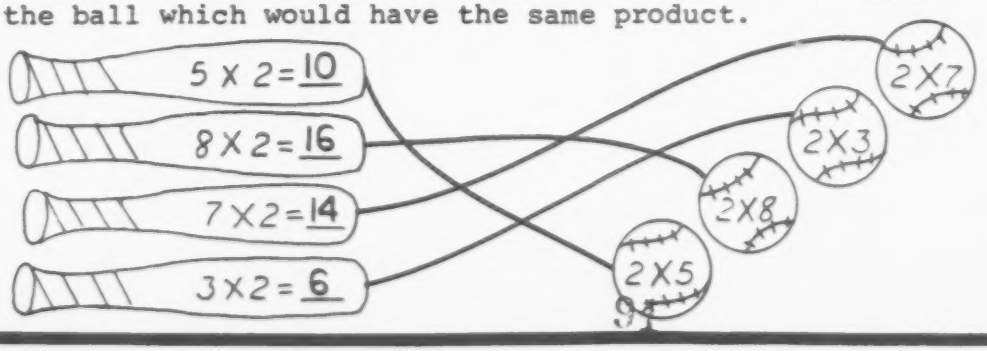
   (a) more for the oranges than for the apples.

   (b) less for the oranges than for the apples.

   ● the same for the oranges and for the apples.

   (d) more than 25¢ for the oranges and the apples.

Solve the number sentence in each bat. Draw a line from each bat to the ball which would have the same product.



SHARPENING YOUR SKILLS

Units 25, 26

Name: _____ **Class:** _____ **Date:** _____

1. Count by twos. Which number is missing?

124 126 128 ☐ 132 134 136 138

129 (a) 130 ● 131 (c) NG (d)

2. Count backward by twos. Which number is missing?

254 252 ☐ 248 246 244 242 240

253 (e) 251 (f) 249 (g) NG ●

3. Count backward by fives. Which numbers are missing?

310, 305, 300, 295, 290, 285

4. When you count forward by threes which number comes after 603? 606

5. Count backward by threes. Which number is missing?

609 606 603 ☐

600 ● 603 (b) 615 (c) 604 (d)

6. Count backward by fours. Which number comes next?

188, 184, 180, 176, 172

7. Which product makes both examples true?

$\begin{array}{r} 2 \\ \times 4 \\ \hline \square \end{array}$ $4 \times 2 = \square$

2 (a) 6 (b) 8 ● NG (d)

8. If 5 x 2 = 10, then ☐ x 5 = 10

15 (e) 2 ● 5 (g) 10 (h)

9. 6 x 2 = 2 x ☐

14 (a) 12 (b) 8 (c) 6 ●

10. Which open number sentence shows how many apples Peter picked?

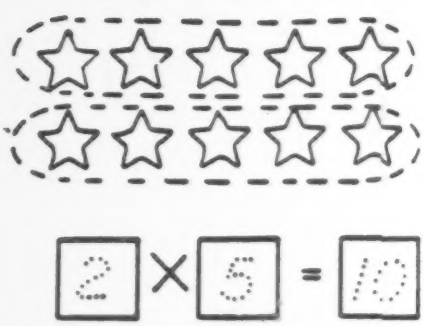
(e) 4 - 2 = ☐ (g) 8 - 2 = ☐

(f) 4 + 2 = ☐ ● 2 x 4 = ☐

P.O. 3.04.04.01 & .03

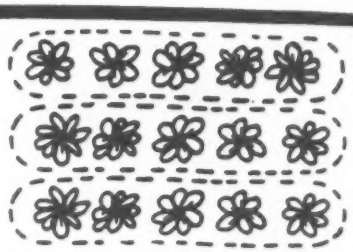
NAME: _____ CLASS: _____ DATE: _____

Write the multiplication facts in both vertical and horizontal formats.



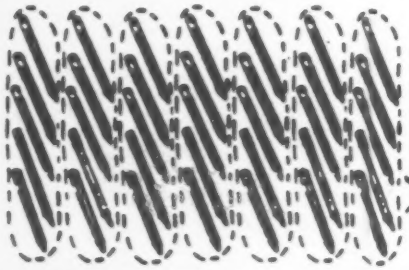
$2 \times 5 = 10$

$$\begin{array}{r} 5 \\ \times\ 2 \\ \hline 10 \end{array}$$



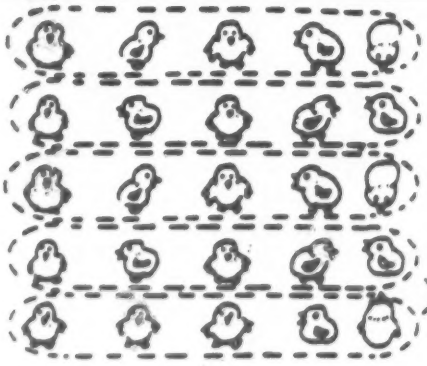
$3 \times 5 = 15$

$$\begin{array}{r} 5 \\ \times\ 3 \\ \hline 15 \end{array}$$



$7 \times 5 = 35$

$$\begin{array}{r} 5 \\ \times\ 7 \\ \hline 35 \end{array}$$



$5 \times 5 = 25$

$$\begin{array}{r} 5 \\ \times\ 5 \\ \hline 25 \end{array}$$

Solve each word problem. Label your answers.

	Work Space
1. There are 5 rows of seats in the classroom. Nine students are seated in each row. How many students are there in all?	$5 \times 9 = 45$ students
2. There are 5 boats at the dock. Four people are on each boat. How many people are there in all?	$5 \times 4 = 20$ people
3. There are 6 tables in the restaurant. Five people are at each table. How many people are there in all?	$6 \times 5 = 30$ people

CHALLENGE!

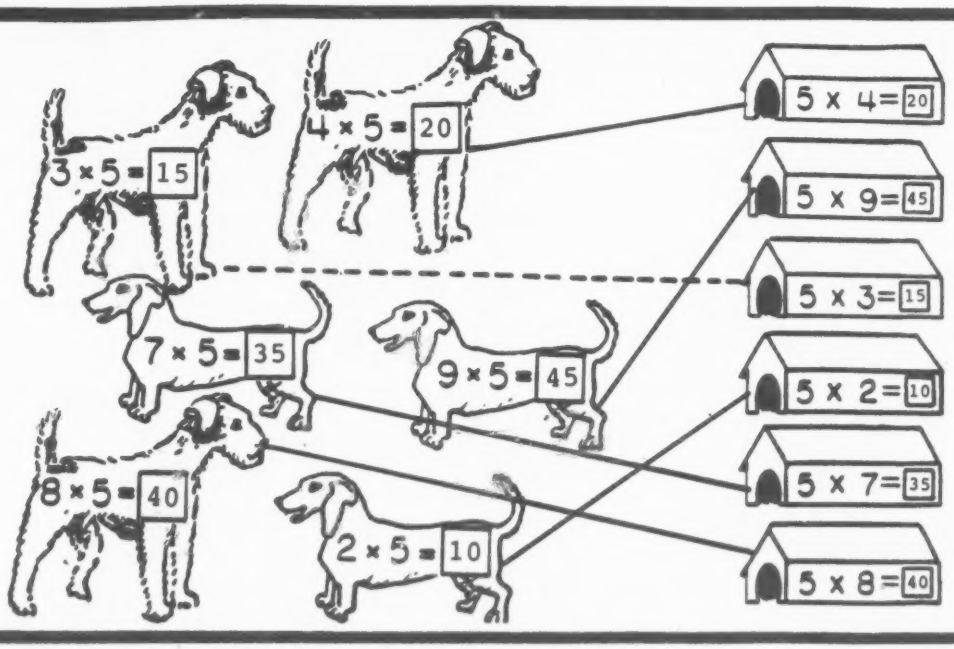
5 people are in each of 5 sailboats.
5 people are in each of 5 motorboats.
How many people are in all the boats?

There are 50 people in all the boats.

P.O. 3.04.04.02 - .03

NAME: _____ CLASS: _____ DATE: _____

Solve each number sentence. Draw a line from the dogs to the dog houses to show that multiplication is commutative.



Solve each word problem. Label your answer.

	Work Space
1. There are 6 tables with 5 children at each table. How many children are there in all? There are 30 children in all.	6 x 5 = 30 children
2. There are 5 tables with 6 children at each table. How many children are there in all? There are 30 children in all.	5 x 6 = 30 children
3. There are 4 trees with 5 apples on each tree. How many apples are there in all? There are 20 apples in all.	4 x 5 = 20 apples
4. There are 5 trees with 4 apples on each tree. How many apples are there in all? There are 20 apples in all.	5 x 4 = 20 apples

Do you remember?

What number makes every subtraction example true? 3

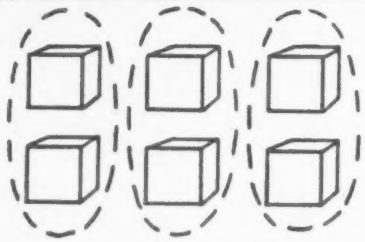
455 − 216 = 239	892 − 544 = 348	791 − 463 = 328	543 − 207 = 336

P.O. 3.05.02.01 & .04

NAME: _____ CLASS: _____ DATE: _____

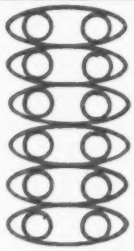
Follow the directions below.

Draw a ring around groups of 2. Complete each division example.



There are 6 blocks.
How many groups of 2?

$6 \div 2 = \boxed{3}$



There are 12 circles.
How many groups of 2?

$$2\overline{)12}\quad \boxed{6}$$

Complete each division example.

$4 \div 2 = \boxed{2}$

$$2\overline{)6}\quad \boxed{3}$$

$16 \div 2 = \boxed{8}$

$8 \div 2 = \boxed{4}$

$$2\overline{)10}\quad \boxed{5}$$

$10 \div 2 = \boxed{5}$

$12 \div 2 = \boxed{6}$

$$2\overline{)2}\quad \boxed{1}$$

$18 \div 2 = \boxed{9}$

Write a number sentence to solve each problem.
Circle the key words.

A florist has (18 roses.) She places (2) (in each vase.) How many vases did she use?

$18 \div 2 = 9$ She used 9 vases.

(Two boys) will (share 14 marbles.)
How many marbles will each boy have?

$14 \div 2 = 7$ Each boy will have 7 marbles.

P.O. 3.05.02.02 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Circle groups of 5. Complete each division example.

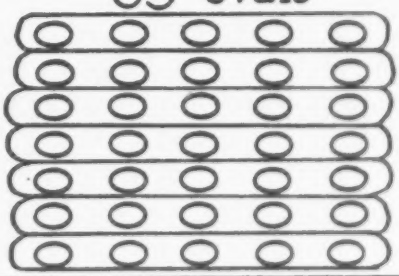
10 stars

How many groups of 5? 2

$10 \div 5 = \boxed{2}$

$5\overline{)10}$ → $\boxed{2}$

35 ovals

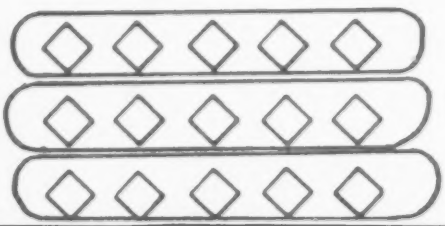


How many groups of 5? 7

$35 \div 5 = \boxed{7}$

$5\overline{)35}$ → $\boxed{7}$

15 diamonds



How many groups of 5? 3

$15 \div 5 = \boxed{3}$

$5\overline{)15}$ → $\boxed{3}$

Write a number sentence to solve each problem.
Circle the key words.

Mrs. Rivera's 5 children shared 30 balloons equally. How many balloons did each of her children get?

$30 \div 5 = 6$

Each child got six balloons.

45 birds were placed in 5 cages. How many birds were in each cage if each cage held an equal number of birds?

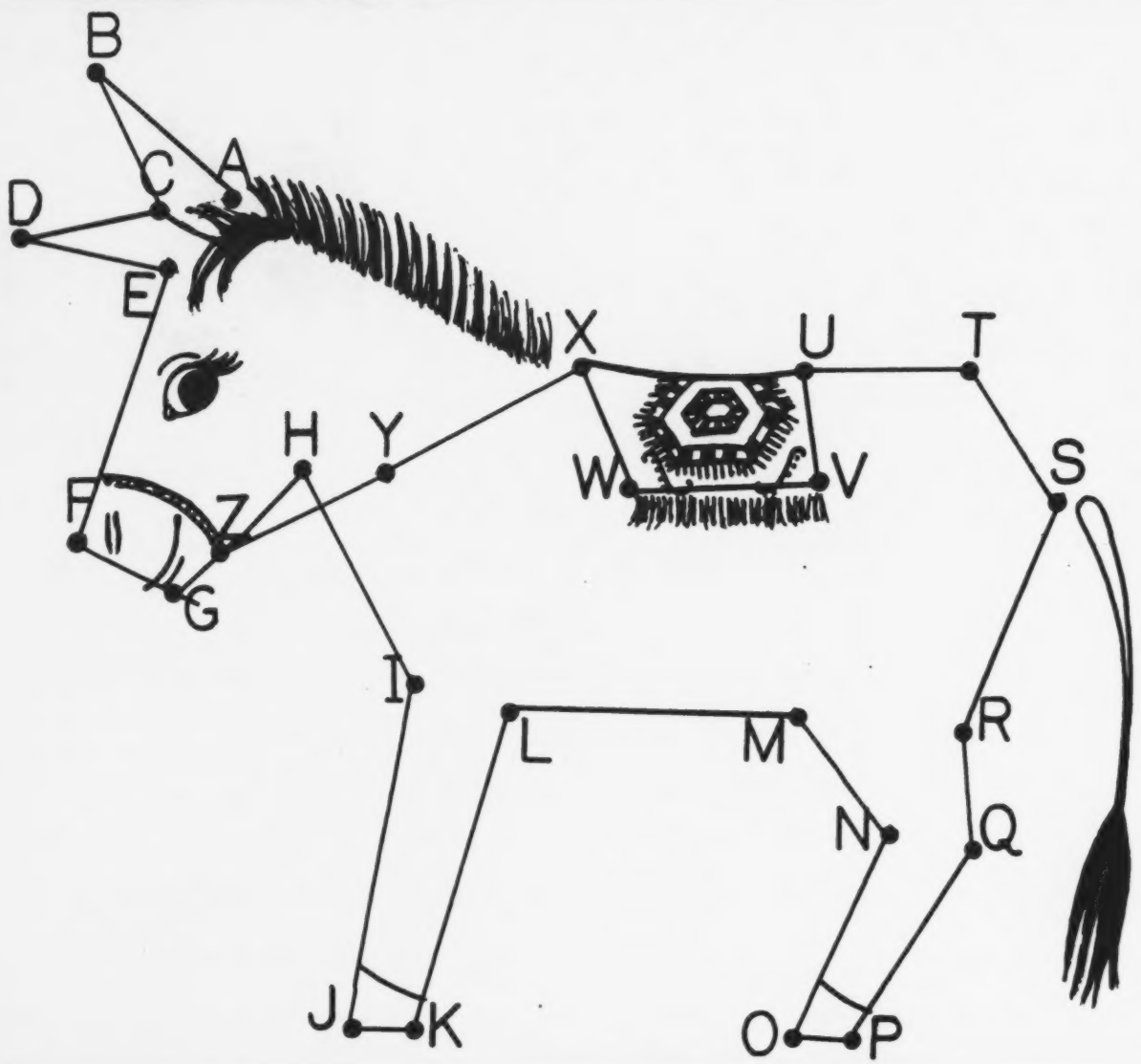
$45 \div 5 = 9$

There were nine birds in each cage.

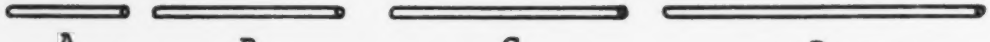
P.O. 3.09.01.01

NAME: _____ CLASS: _____ DATE: _____

Each dot represents a point. Connect the dots in alphabetical order to complete the picture.



CHALLENGE! Look at these sticks.



How many different triangles can you make using three sticks at a time?

Hint: Make a list.

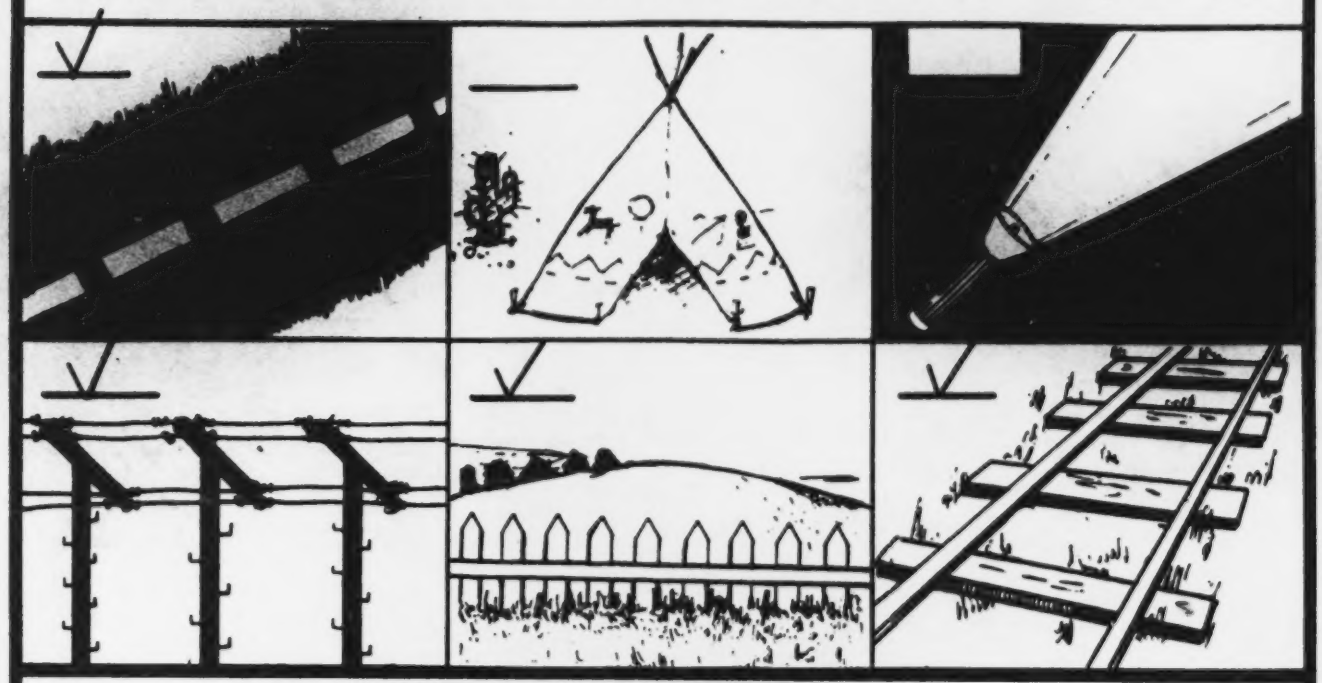
4 △ABC △ACD △BCD △ABD

P.O. 3.09.01.02

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Place a check in each box with a picture suggesting lines.



Draw a ring around the symbols which identify lines.

$\overleftrightarrow{AB}$ $\overrightarrow{CD}$ $\overline{EF}$ $\overleftarrow{GH}$ $\overleftrightarrow{IJ}$ $\overleftrightarrow{KL}$ $\overrightarrow{MN}$ $\overline{OP}$ $\overleftrightarrow{QR}$

Do you remember?

Complete each pattern.

$2 \times 1 = 2, 2 \times 2 = 4$, 2x3 6, 2x4=8, $2 \times 5 = 10$

$3 \times 5 = 15, 3 \times 4 = 12$, 3x3=9, 3x2=6, $3 \times 1 = 3$

$4 \times 1 = 4$, 4x2=8, 4x3=12, 4x4=16, $4 \times 5 = 20$

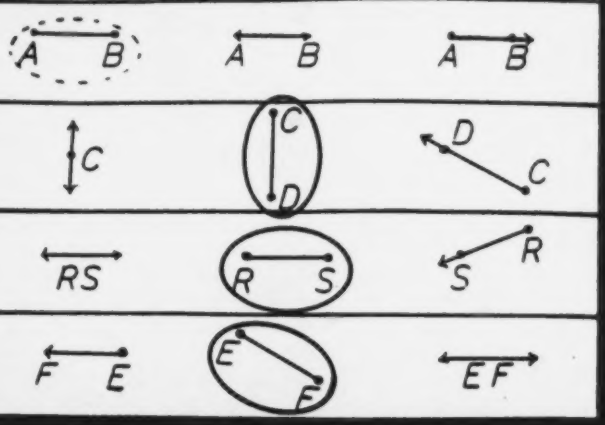
$5 \times 5 = 25, 5 \times 4 = 20$, 5x3=15, 5x2=10, 5x1=5

P.O. 3.09.01.03-.04

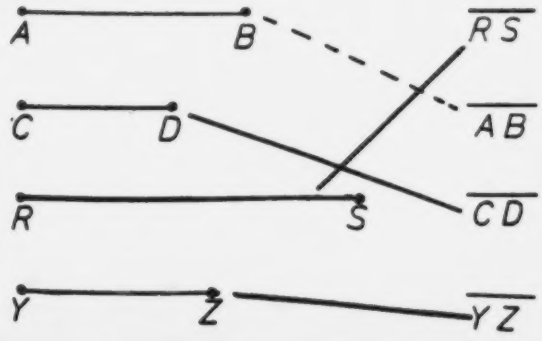
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

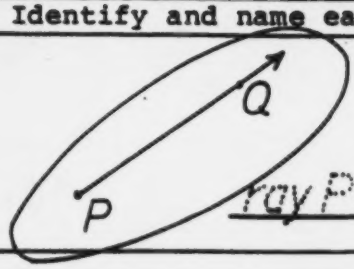
Circle the line segments.



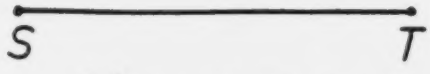
Match the line segments with their symbols.



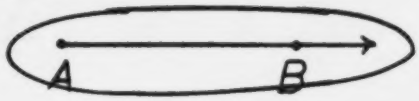
Identify and name each drawing. Circle the drawings of rays.



ray PQ or $\overrightarrow{PQ}$



line segment ST or $\overline{ST}$



ray AB or $\overrightarrow{AB}$

line DE or $\overleftrightarrow{DE}$

line segment MN or $\overline{MN}$

point E

DO YOU REMEMBER?

The ice cream man sold 135 cones on Park Avenue. He sold 264 cones on Broadway. How many cones did he sell altogether?

399 cones

Popeye ate 110 cans of spinach last year. This year he ate 212 cans. How many more cans of spinach did he eat this year?

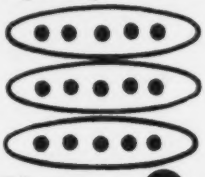
102 cans

SHARPENING YOUR SKILLS

Units 27, 28, 29

Name: _____ **Class:** _____ **Date:** _____

1. How many groups of five?



(a) 15 fives ● 3 fives

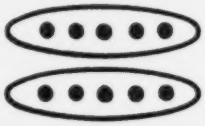
(b) 5 fives (d) 1 five

2. How many fives?

(e) 30 fives (g) 5 fives

● 6 fives (h) 1 five

3. Write a multiplication number sentence to describe this array.



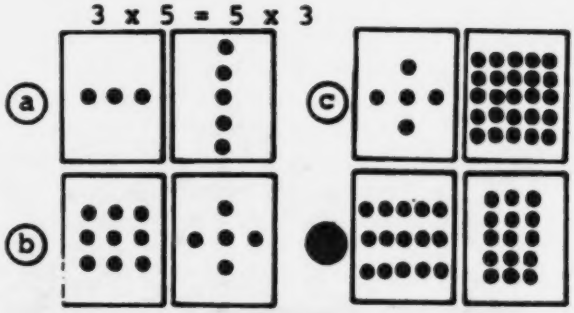
2 x 5 = 10

4. What number makes both examples true? 30

6 x 5 = □

$\begin{array}{r} 5 \\ \times 6 \\ \hline \square \end{array}$

5. Which cards describe 3 x 5 = 5 x 3



(a) (c)

(b) ●

6. If 5 x 8 = 40

then 8 x [5] = 40

40 = 40

7. Each day Paula saves 5¢. How much money will she save at the end of a week?

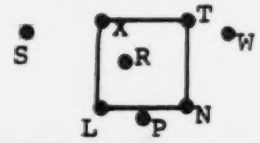
Paula will save 35¢.

8. Divide.

$2\overline{)14}$ → [7] $5\overline{)30}$ → [6]

18 ÷ 2 = [9] 40 ÷ 5 = [8]

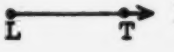
9. Connect four points to make a square.



10. Circle the correct choice.

(line) ray, line segment

line, ray, (line segment)

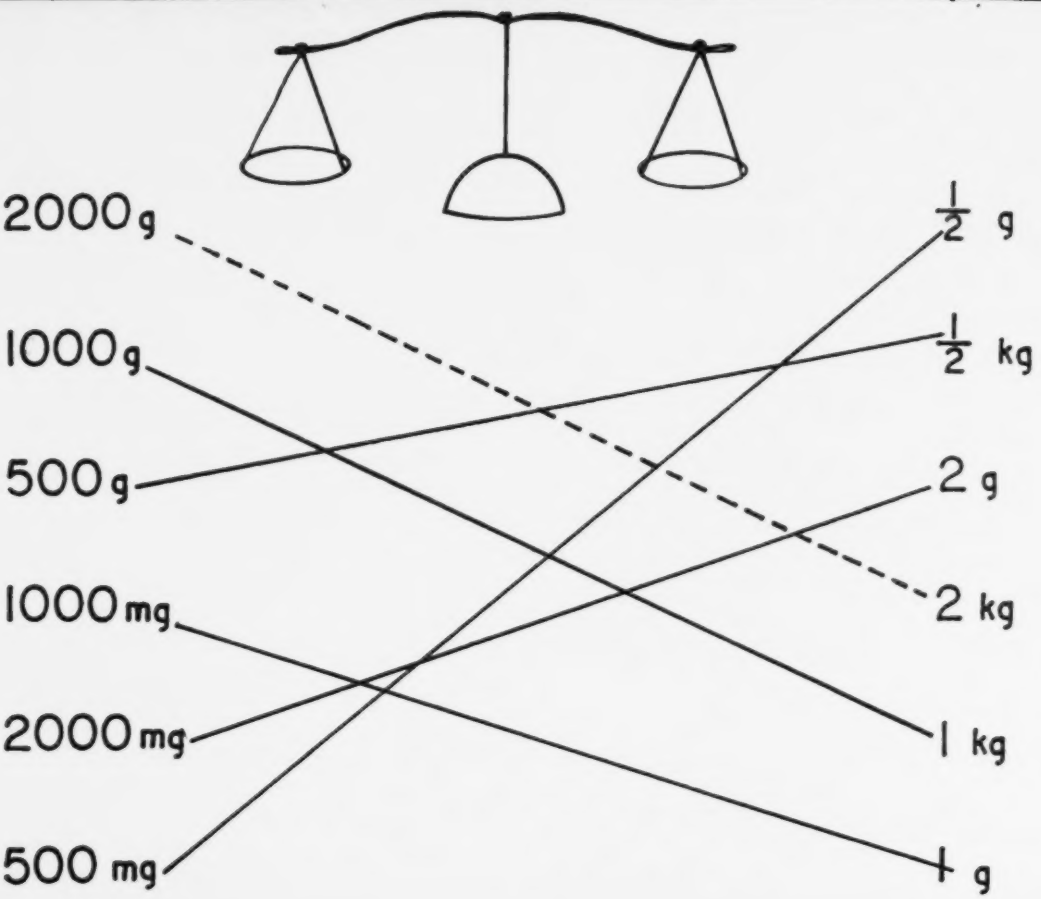


line, (ray), line segment

P.O. 3.10.05.01

NAME: _____ CLASS: _____ DATE: _____

Balance the scale by placing an equal amount of weight on each side.
Draw a line to connect equal weights.



Do you remember?

There is a ☐ around one number in each number sentence. Select a word from the list which describes that number and write it on the line.

14 − [5] = 9	subtrahend
[5] × 3 = 15	factor
8 − 3 = [5]	difference
12 ÷ [2] = 6	divisor
[11] − 4 = 7	minuend
6 + 7 = [13]	sum
20 ÷ 5 = [4]	quotient
[9] + 3 = 12	addend

WORD LIST

quotient	factor
sum	difference
product	divisor
minuend	addend
subtrahend	dividend

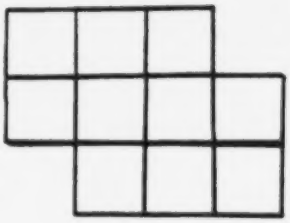
P.O. 3.07.01.01

NAME: _____ CLASS: _____ DATE: _____

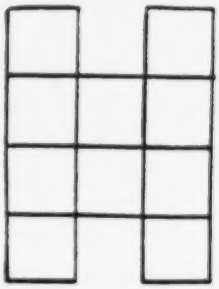
Color the amount indicated below each picture.

Answers may vary.

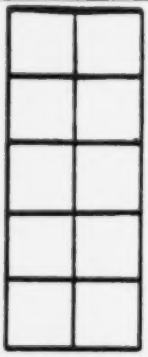
0.2



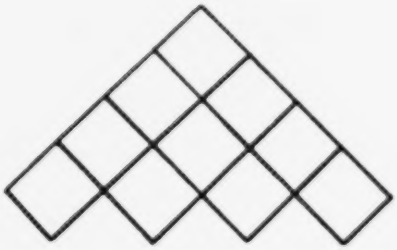
0.9



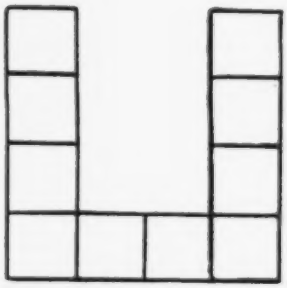
0.7



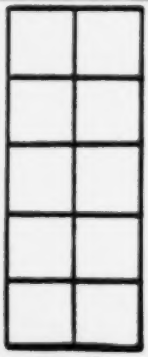
0.5



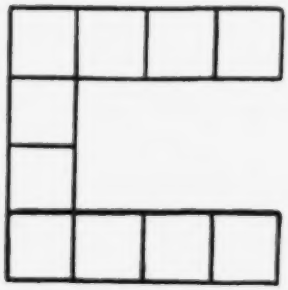
0.4



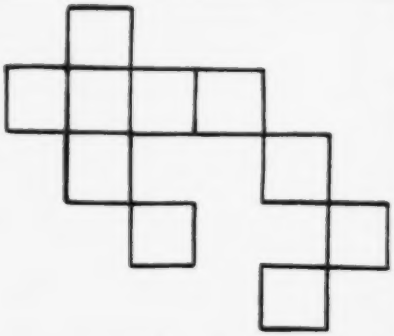
0.8



0.3



0.1



0.6

CHALLENGE!

Draw a figure which has 0.6 shaded.

Answers may vary.

P.O. 3.07.01.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write the fraction on each clown's hat as a decimal.

CHALLENGE!

Count by tenths. Cross out the numbers which do not belong.

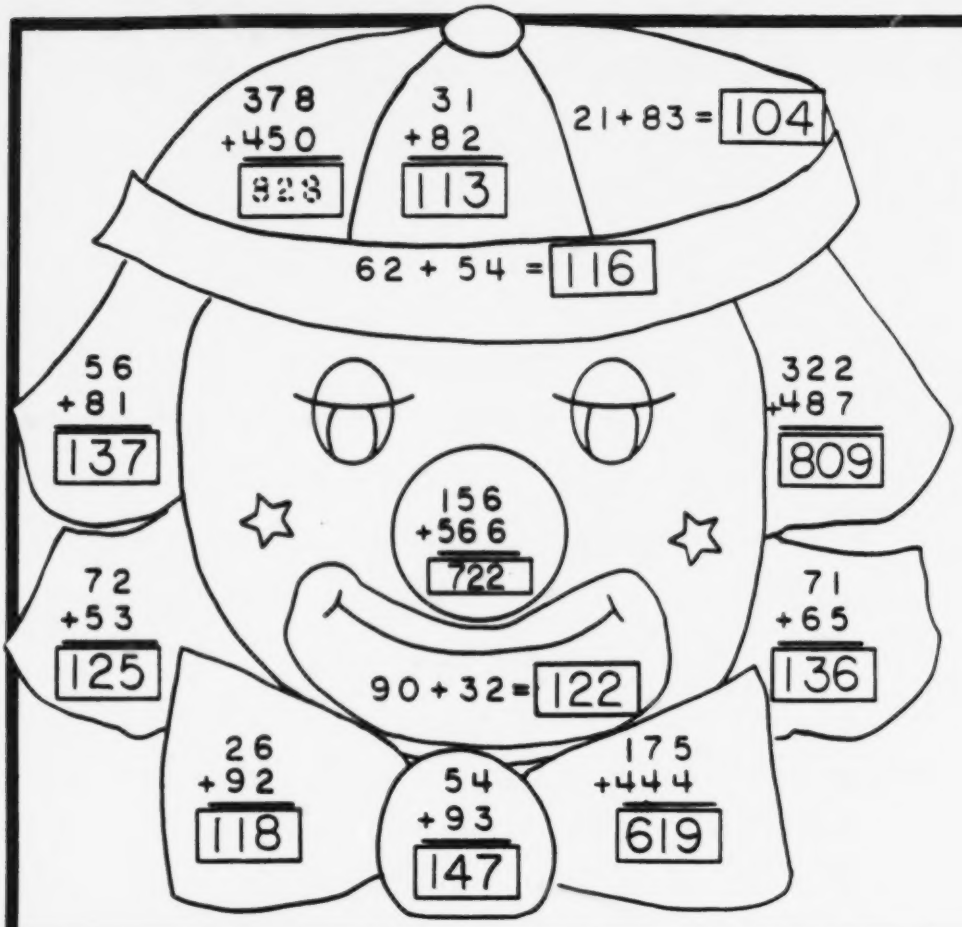
0.1, 0.2, ~~.03~~, 0.3, 0.4, ~~5~~, ~~50~~, 0.5,

0.6, ~~70~~, 0.7, 0.8, ~~9~~, 0.9, 1 WHOLE

P.O. 3.02.04.01 - .03

NAME: _____ CLASS: _____ DATE: _____

Add. Use the answer key to color the clown. Check your answers on a separate paper.



★ Answer Key ★

Blue
828
147
104

Red
116
722
122

Green
113
118
619

Yellow
125
136
137
809

Solve and check.

1. Jack, the candlestick maker, made 315 candles on Monday. He made 292 candles on Tuesday. How many candles did he make in all? solve check

Answer: 607 candles

2. Mary had 375 lambs. She bought 154 more. How many lambs does she have altogether? solve check

Answer: 529 lambs

3. The art teacher in room 243 needed 344 crayons for all her classes. Which boxes should she use so that she has enough? solve check

Answer: 183+161 crayons

SHARPENING YOUR SKILLS

Units 30, 31, 32

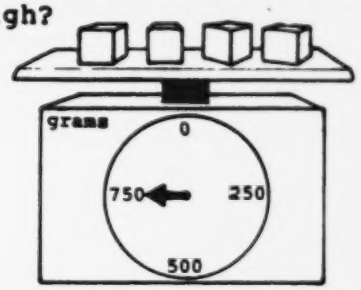
Name:_____ **Class:** _____ **Date:**_____

1. One kilogram is equal in weight to _____.

   (a) 1 milligram (c) 1000 lbs.

   ● 1000 grams (d) 1 liter

2. How much do these cubes weigh?



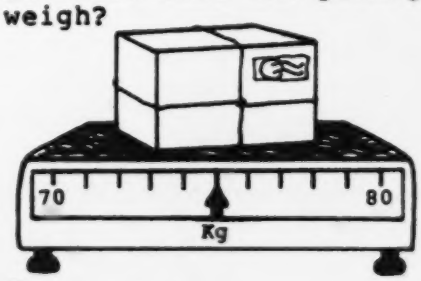
   (e) more than 1 kilogram

   ◐ 750 grams

   (g) 1 kilogram

   (h) 750 kilograms

3. How much does the package weigh?



   ● 75 kilograms

   (b) 75 grams

   (c) more than 80 kilograms

   (d) less than 70 kilograms

4. Which shows four tenths as a decimal?

$\frac{4}{10}$	4.0	0.4	410
(a)	(b)	●	(d)

5. Write the decimal form for each fraction.

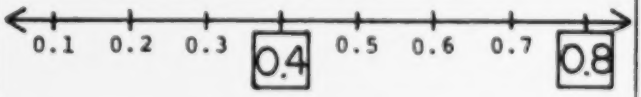
   $\frac{3}{10}$ = 0.3 $\frac{1}{10}$ = 0.1 $\frac{7}{10}$ = 0.7

6. 0.9 is the same as _____.

   (e) nine (g) zero ninths

   (f) ninety ● nine tenths

7. Complete the number line.



8. Solve and check.

   371 + 250 = 621

   check
   250
   +371
   621

9. The New York Visitors Bureau answered 183 calls between 9:00 A.M. and 10:00 A.M. Another 175 calls were answered between 10:00 A.M. and 11:00 A.M. How many calls were answered in the 2 hours?

   358 phone calls were answered.

P.O. 3.03.04.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Subtract and check. Use the code to find the message.

What kind of pants do ghosts wear?

① 618 / 788 − 394 = 394

check: 394 + 394 = 788

② 979 − 596 = 383

check: 383 + 596 = 979

③ 666 − 283 = 383

check: 383 + 283 = 666

④ 746 − 281 = 465

check: 465 + 281 = 746

⑤ 603 − 473 = 130

check: 130 + 473 = 603

⑥ 438 − 298 = 140

check: 140 + 298 = 438

⑦ 729 − 266 = 463

check: 463 + 266 = 729

⑧ 888 − 394 = 494

check: 494 + 394 = 898

130	494	394	140	383	465	463
E	S	B	A	O	J	N

B O O - J E A N S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

Solve and check.

The students in room 230 collected 324 cans for recycling. The students in room 142 collected 181 cans for recycling. How many more cans were collected by the students in room 230?

Answer: 143 cans

Ellen, the baby elephant, weighs 153 pounds. Ernest, the baby elephant, weighs 228 pounds. What is the difference in their weights?

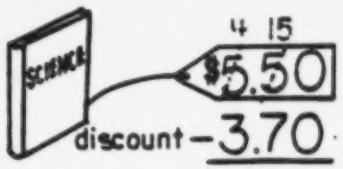
Answer: 75 pounds

P.O. 3.03.04.01-.03

NAME: _____ CLASS: _____ DATE: _____

Subtract to find the sale price for each book. Check your answers.

BOOK SALE



4 15

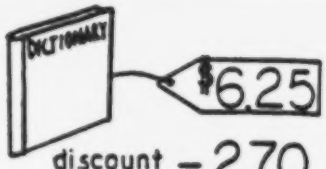
$5.50

discount −3.70

sale price $1.80

check

$1.80 + 3.70 = $5.50



$6.25

discount − 2.70

sale price $3.55

check

$3.55 + 2.70 = $6.25

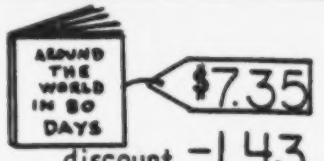
$9.30

discount − 4.70

sale price $4.60

check

$4.60 + 4.70 = $9.30



$7.35

discount − 1.43

sale price $5.92

check

$5.92 + 1.43 = $7.35

Use the table to help you solve the problems. Underline key words and check.

Cans Collected

	January	February	March	April
John's class	361	621	375	425
Susan's class	542	281	184	859

1. How many more cans did Susan's class collect in January than John's class?

   Answer: In January Susan's class collected 181 more cans than John's class.

   +14 / 542 − 361 = 181

   check: 181 + 361 = 542

2. Susan's class collected more cans in January than in February. What is the difference in the amount collected in those months?

   Answer: They collected 261 more cans in Janugry.

   check

3. How many fewer cans were collected by John's class in March than in April?

   Answer: They collected 50 fewer cans in March than in April.

   check

P.O. 3.02.05.01&.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Do you know the famous person? Solve each example and check. Find each answer in the name and write the letter of the example on the line.

11 343 +269 612 K	check 269 +343 612	127 +483 610 H	check 483 +127 610	414 +187 601 D	check 187 +414 601
312 162 +159 633 C	check 159 162 +312 633	519 +286 805 E	check 286 519 805	123 378 +245 746 O	check 245 378 +123 746

FAMOUS PERSON

E	D	K	O	C	H
805	601	612	746	633	610

Solve each problem. Check your answer.

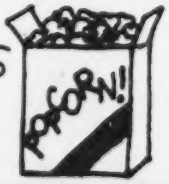
On Saturday 356 circus tickets were sold. On Sunday 285 tickets were sold. How many tickets were sold on both days?

Answer: There were 641 tickets sold.

check

John sold 227 boxes of popcorn. Jimmy sold 336 boxes of popcorn. How many boxes of popcorn did both boys sell?

Answer: They sold 563 boxes of popcorn.



check

P.O. 3.02.05.02..03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

How much does each group of toys cost? Solve and check your answers.

solve

$4.59
+1.98
$6.57

check

$1.98
+4.59
$6.57

solve

$5.75
+3.29
$9.04

check

$3.29
+5.75
$9.04

solve

$2.98
+4.45
$7.43

check

$4.45
+2.98
$7.43

Solve each problem. Check your answer.

Mark sold 216 soft drinks. Mary sold 394 soft drinks. Ted sold 162 soft drinks. How many soft drinks were sold in all?

solve

check

772 soft drinks were sold.

The clown gave 438 balloons to the youngsters on Saturday. He gave 299 balloons to the youngsters on Sunday. How many balloons did he give out during the weekend?

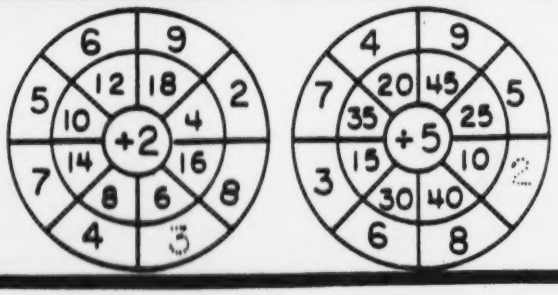
solve

check

He gave out 737 balloons.

Do you remember?

Complete the division wheels.



SHARPENING YOUR SKILLS

Units 33, 34

Name: _____ **Class:** _____ **Date:** _____

1. On Monday, Careless Carol left the house with $3.92. She lost $1.43. How much money did she have when she got home?

   Carol had $2.49.

2. On Tuesday, Careless Carol left her house with $8.16. The ice cream she dropped in the street cost $1.25. How much money did she have left?

   Carol had $6.91 left.

3. On Wednesday, Careless Carol left the house with $9.65. She spent $4.91 on a poster which blew away in the wind. With how much money did she return home?

   Carol returned with $4.74.

4. On Thursday and Friday Careless Carol stayed in bed because she had already lost $ 7.59 that week.

5. Billy traveled to Washington, D.C. to visit his uncle Ronald. To get there he drove 362 miles on Saturday and 289 miles on Sunday. How far away does Uncle Ronald live?

   Uncle Ronald lives 651 miles away.

6. Solve.

   853 − 180

   (a) 733 ● 673 (b) 753 (d) 633

   $3.98 + 1.79

   ● $5.77 (g) $56.17 (f) $4.67 (h) $4.77

7. Solve and check.

   345 − 174 = 171

   check: 171 + 174 = 345

   $4.89 − 2.98 = $1.91

   check: $1.91 + 2.98 = $4.89

P.O. 3.03.05.01&.03

NAME: _____ CLASS: _____ DATE: _____

Solve and check the examples and word problems below.

1. solve	check	2. solve	check	3. solve	check
435 -267 168	168 +267 435	651 -388 263	263 +388 651	436 -198 238	238 +198 436
4. solve	**check**	**5. solve**	**check**	**6. solve**	**check**
945 -689 256	256 +689 945	327 -168 159	159 +168 327	552 -386 166	166 +386 552
7. solve	**check**	**8. solve**	**check**	**9. solve**	**check**
244 -175 69	69 +175 244	636 -188 448	448 +188 636	846 -278 568	568 +278 846

10. Guidebooks to New York City are sold by street vendors. A vendor at Times Square sold 482 guidebooks. A vendor at the South Street Seaport sold 623 guidebooks. A vendor at the United Nations Building sold 365 guidebooks. How many more guidebooks were sold by the South Street Seaport vendor than by the United Nations vendor?

solve check

Answer: He sold 258 more guidebooks.

11. A public library in the Bronx has 384 fairy tales on the shelves. A public library in Queens has 923 fairy tales on the shelves. What is the difference in the number of fairy tales in the two libraries?

solve check

Answer: There is a difference of 539 books.

P.O. 3.03.05.02-.03

NAME: _____ CLASS: _____ DATE: _____

Solve and check the examples and word problems below.

solve	check	solve	check	solve	check
$ 5.25 −2.76 $ 2.49	$2.49 +2.76 $5.25	$ 8.32 −5.45 $ 2.87	$2.87 +5.45 $8.32	$ 6.15 −2.68 $ 3.47	$3.47 +2.68 $6.15
solve	**check**	**solve**	**check**	**solve**	**check**
$ 9.33 −4.75 $ 4.58	$4.58 +4.75 $9.33	$ 5.28 −1.69 $ 3.59	$3.59 +1.69 $5.28	$ 9.62 −2.74 $ 6.88	$6.88 +2.74 $9.62

7. The regular price for a concert ticket to Madison Square Garden is $8.75. Carla bought a discounted ticket for $6.98. What is the difference in prices?

Answer: The difference is $1.77.

solve **check**

8. Hannah went to Chinatown with $9.25. She spent $4.79 on a toy dragon. How much money did she have left?

Answer: She had $4.46 left.

solve **check**

CHALLENGE!

1,246 students were graduated from a high school in Manhattan. 328 students will attend college in New York State. 649 students will attend college in New York City. The other students will get jobs. How many students will get jobs?

Answer: 269 students will get jobs.

P.O. 3.10.06.01 - .02

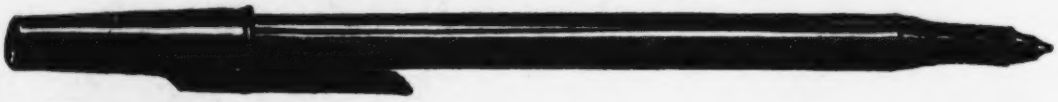
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Measure each object to the nearest inch and record its length.

This pencil is about 4in. long.

This straw is about 7in. long.



This pen is about 6in. long.

This chain is about 2in. long.

Use the ruler below to measure the length of each stick to the nearest half inch.

The shortest stick is about $1\frac{1}{2}$ inches long.

The black stick is about $5\frac{1}{2}$ inches long.

Stick D is about 3 inches long.

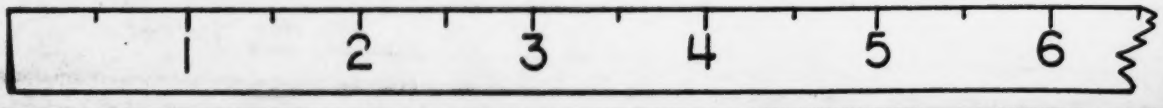
Stick A is about 4 inches long.

A.

B.

C.

D.

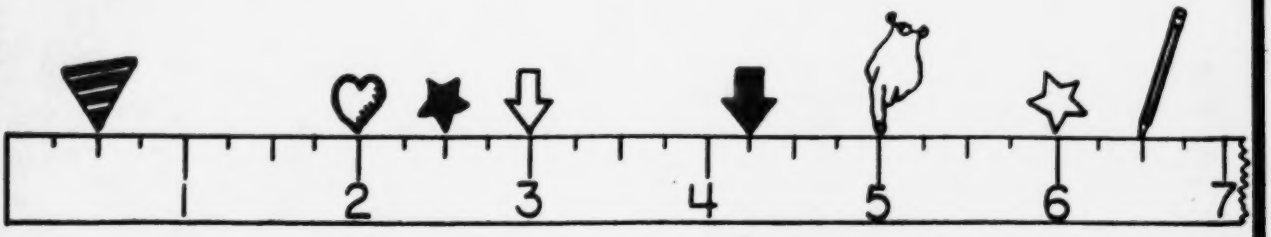


P.O. 3.10.06.01 - .03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Several pictures are located along the edge of the ruler. Indicate the point at which each picture is located.



3"

6"

5"

2"

$4\frac{1}{4}$"

$2\frac{1}{2}$"

$6\frac{1}{2}$"

$\frac{1}{2}$"

Write > or < for each sentence.

$1\frac{1}{2}$" < $1\frac{3}{4}$" 7" > $6\frac{1}{4}$" $9\frac{1}{4}$" > $8\frac{3}{4}$"

$3\frac{3}{4}$" < 4" $5\frac{1}{2}$" > $5\frac{1}{4}$" 10" > $9\frac{1}{4}$"

Do you remember? Circle the even numbers. Complete each sentence.

(4), 7, 13, (28), (62), 115, (260), 711, (4114)

When subtracting an even number from an odd number, the difference is odd .

The sum of two odd numbers is an even number.

The difference between two odd numbers is an even number.

The sum of an odd number and an even number is an odd number.

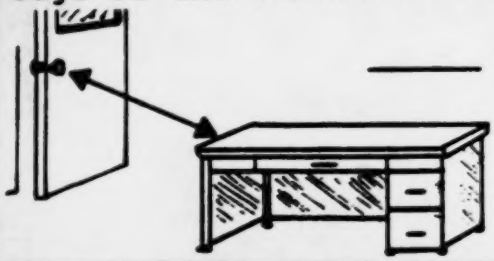
P.O. 3.10.06.04-.06

NAME: _____ CLASS: _____ DATE: _____

Use your classroom and your classmates to answer the questions below.

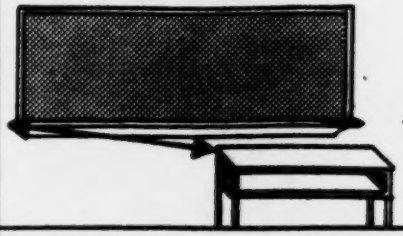
Answers may vary.

What is the distance, in feet, from the door knob to the top edge of the teacher's desk?



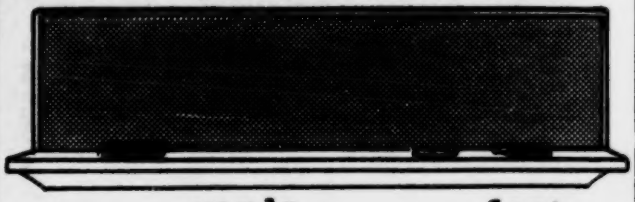
_____ feet

What is the distance, in feet, from the lower left edge of the chalkboard to the left edge of your desk?



_____ feet

About how many yards long is the chalkboard? How many feet long is the chalkboard?



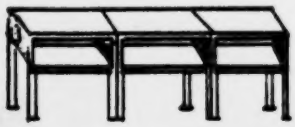
_____ yards _____ feet

If ten students stand shoulder to shoulder, what is the distance from the first student to the last?

_____ feet

_____ yards

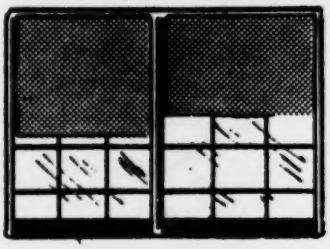
Push three desks together. About how many yards long are they altogether? About how many feet long are they altogether?



_____ yards

_____ feet

About how many yards wide are two classroom windows?



_____ yards

Complete each sentence.

If 1 foot = 12 inches, then 2 feet = 24 inches.

If 2 feet = 24 inches, then 3 feet = 36 inches.

If 1 yard = 3 feet, then 2 yards = 6 feet.

If 3 yards = 9 feet, then 4 yards = 12 feet.

If 36 inches = 1 yard, then 36 inches = 3 feet.

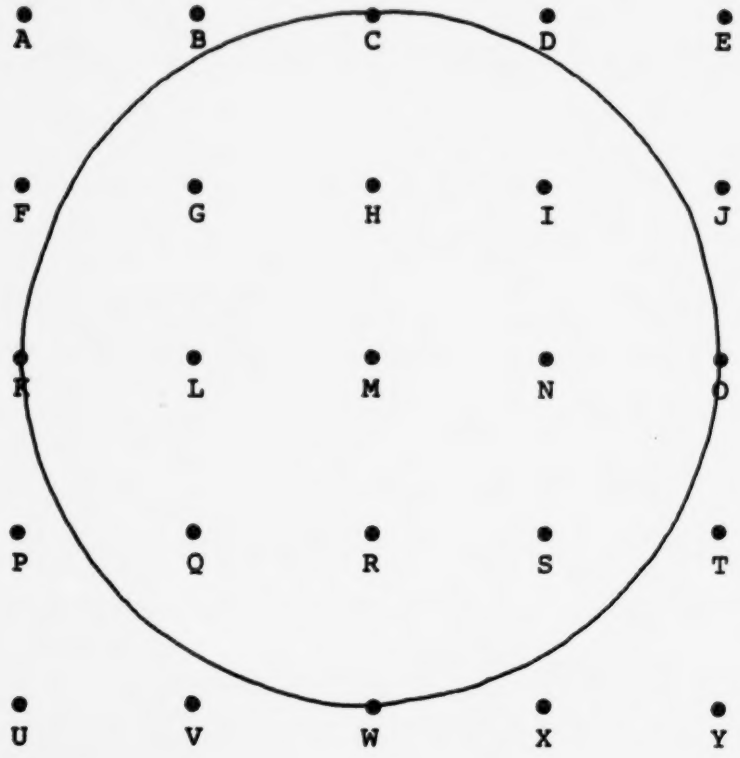
P.O. 3.09.02.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Place the point of a compass on point M and the compass pencil on point O. Draw a circle. Through which 4 points does the circle pass?

point C, point O, point W, point K



CHALLENGE!

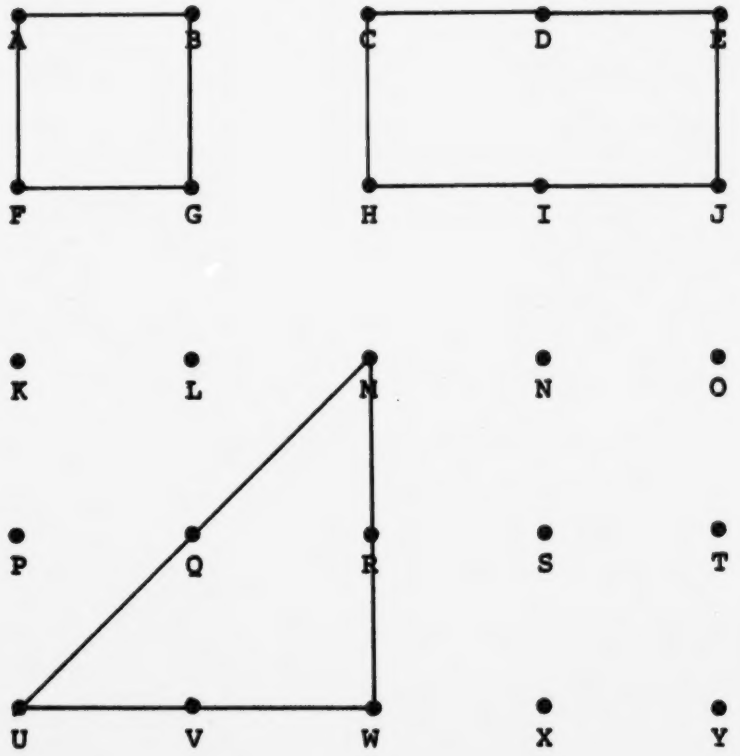
- **Draw a circle which is double the size of the circle above.**
- **Draw a circle which is one-half the size of the circle above.**

P.O. 3.09.02.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Use a ruler to draw $\overline{AB}$, $\overline{BG}$, $\overline{GF}$, and $\overline{FA}$.
   This figure is called a square.
2. Use a ruler to draw $\overline{CE}$, $\overline{EJ}$, $\overline{JH}$, and $\overline{HC}$.
   This figure is called a rectangle.
3. Use a ruler to join points M, U, and W.
   This figure is called a triangle.
4. Use 3 points to make the smallest possible triangle.
   What points did you join? Answers may vary.

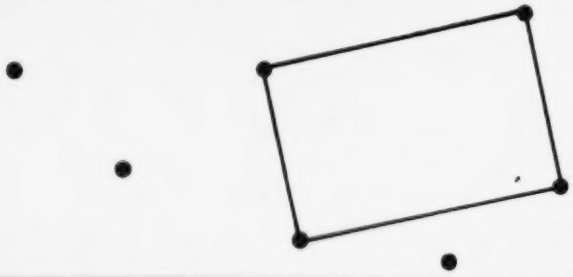


SHARPENING YOUR SKILLS

Units 36, 37

Name: _____ Class: _____ Date: _____

1. Connect 4 dots to make a rectangle. Use a ruler.



2. 2 yards = ___ feet.

(a) 8 (c) $\frac{1}{2}$

(b) 2 ● 6

3. 24 inches = ___ feet.

(e) 1 ● 2

(f) 6 (h) 24

4. 5 yards = ___ feet.

● 15 (c) 6

(b) 6 (d) 10

5. Circle the items below which could be $\frac{1}{2}$ inch long.

(a coin) a boy

a notebook (an insect)

(a screw) (a flower petal)

6. Robert used a compass to draw a shape. What shape did he draw?

(e) triangle ● circle

(f) rectangle (h) square

7. Complete each sentence with the word foot, feet, yard, or yards.

A 12 inch ruler equals 1 foot.

A teacher's desk is about 1 yard long.

The height of a door is about 7 feet.

A car is about 4 yards long.

P.O. 3.04.05.01,.02,&.04

NAME: _____ CLASS: _____ DATE: _____

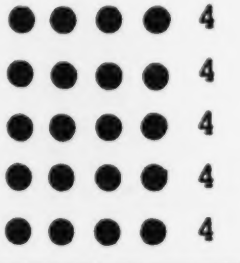
Complete each section.

a)

2 groups of 3 = 6

2 x 3 = 6

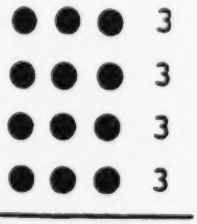
b)



5 groups of 4 = 20

5 x 4 = 20

c)



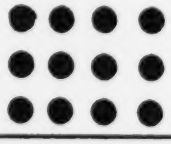
4 groups of 3 = 12

4 x 3 = 12

Draw an array for each number sentence.

d) 2 x 4 = 8

e) 3 x 4 = 12



f) 5 x 3 = 15

Complete each number sentence.

4 x 3 = 12	6 x 3 = 18	4 x 4 = 16
5 x 4 = 20	5 x 3 = 15	7 x 4 = 28
2 x 3 = 6	3 x 4 = 12	3 x 3 = 9

Complete each algorithm.

3 x2	4 x3	4 x5	3 x7	3 x8
6	12	20	21	24

A tricycle has 3 wheels. How many wheels do 9 tricycles have?

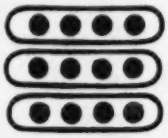
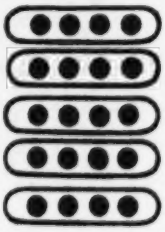
9 tricycles have 27 wheels.

P.O. 3.04.05.01 - .03

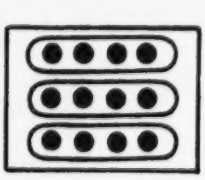
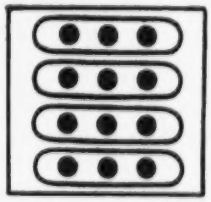
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete each box by writing the missing words or numbers.

a)	3 + 3 = 6	2 groups of 3	2 x 3 = 6	3 x 2 = 6
b) 	4 + 4 + 4 = 12	3 groups of 4	3 x 4 = 12	4 x 3 = 12
c) 	4 + 4 + 4 + 4 + 4 = 20	5 groups of 4	5 x 4 = 20	4 x 5 = 20

Which number sentence describes both pictures?

a) 3 + 3 + 3 + 3 = 12

b) 12 - 9 = 3

c) 12 - 4 = 8

d) 3 x 4 = 4 x 3

Complete each box by writing the missing numbers.

If 4 x 3 = 12, then 3 x 4 = 12.

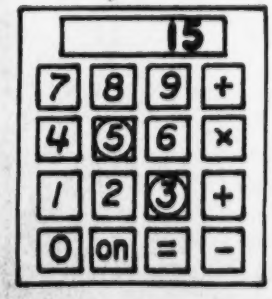
If 5 x 4 = 20, then 4 x 5 = 20.

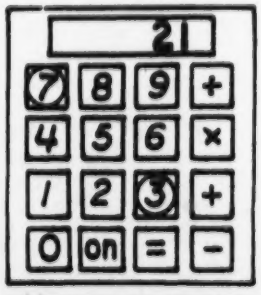
If 7 x 3 = 21, then 3 x 7 = 21.

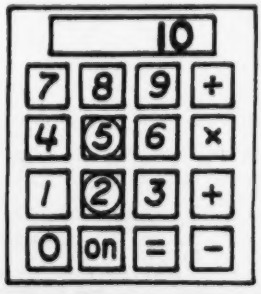
If 6 x 3 = 18, then 3 x 6 = 18.

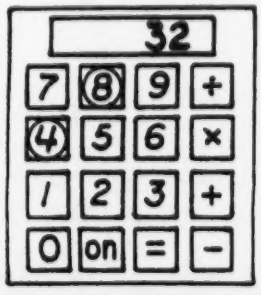
CHALLENGE!

Circle the digits you must press on the calculator to get the products in the window.









P.O. 3.05.03.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

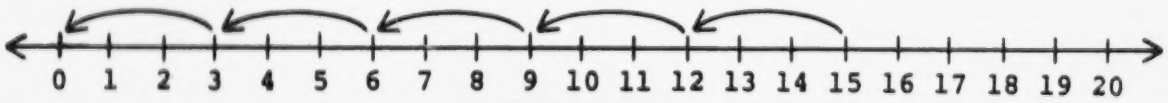
Divide by 3 to complete the chart.

	A	B	C	D	E	F	G	H
Dividend	21	15	6	12	18	24	9	3
Quotient	7	5	2	4	6	8	3	1

Write and solve division algorithms for each of the above.

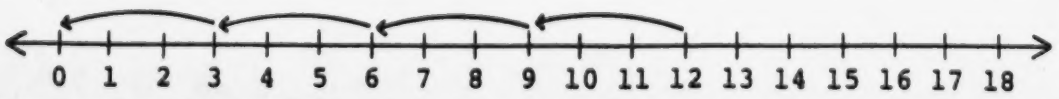
A	B	C	D
$21 \div 3 = 7$ $3\overline{)21}$ 7	$15 \div 3 = 5$ $3\overline{)15}$ 5	$6 \div 3 = 2$ $3\overline{)6}$ 2	$12 \div 3 = 4$ $3\overline{)12}$ 4
E	**F**	**G**	**H**
$18 \div 3 = 6$ $3\overline{)18}$ 6	$24 \div 3 = 8$ $3\overline{)24}$ 8	$9 \div 3 = 3$ $3\overline{)9}$ 3	$3 \div 3 = 1$ $3\overline{)3}$ 1

Draw a ring around the number sentence which represents the number line.



$6 + 7 = 13$ $\quad$ $15 \div 3 = 5$ $\quad$ $12 \div 3 = 4$

Show jumps on the number line which represent $12 \div 3 = 4$.



P.O. 3.05.03.01-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete each sentence. Then write a number sentence.

There are 5 fours in 20.	20	÷	4	=	5
There are 4 fours in 16.	16	÷	4	=	4
There are 6 fours in 24.	24	÷	4	=	6
There are 2 fours in 8.	8	÷	4	=	2
There are 9 fours in 36.	36	÷	4	=	9
There is 1 four in 4.	4	÷	4	=	1
There are 3 fours in 12.	12	÷	4	=	3
There are 7 fours in 28.	28	÷	4	=	7
There are 8 fours in 32.	32	÷	4	=	8

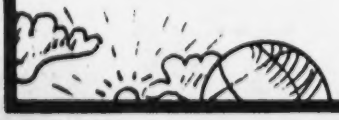
Divide and check.

$3\overline{)12}$ = 4 check $3 \times 4 = 12$	$4\overline{)16}$ = 4 check $4 \times 4 = 16$	$3\overline{)18}$ = 6 check $3 \times 6 = 18$
$3\overline{)36}$ = 12 check $3 \times 12 = 36$	$4\overline{)24}$ = 6 check $4 \times 6 = 24$	$4\overline{)8}$ = 2 check $4 \times 2 = 8$
$4\overline{)20}$ = 5 check $4 \times 5 = 20$	$3\overline{)9}$ = 3 check $3 \times 3 = 9$	$3\overline{)15}$ = 5 check $3 \times 5 = 15$

Read the story and solve each problem.

21 people were in a spring balloon contest. Each balloon carried 3 people. How many balloons were in the race?

There were 7 balloons in the race.



36 people attended the party given for the people in the balloon race. If 4 people shared a whole chicken, how many chickens were needed for the party?

There were 9 chickens needed for the party.

P.O. 3.05.03.03

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below.

1. 32 students from Ms. Chin's class went on a winter camping trip. If 4 students shared a tent, how many tents were needed? 8 tents were needed.	solve
2. 18 students will prepare the meals on Saturday and on Sunday. If 3 students prepare each meal, how many meals will be prepared? 6 meals will be prepared.	solve
3. In an ice skating race there were 15 trips around the lake. If 3 trips around were made by each camper, how many campers participated? 5 campers participated.	solve
4. The campers made pine cone picture frames. They used a total of 36 pine cones to make 4 frames. How many pine cones were used for each frame? 9 pine cones were used for each frame.	solve
5. 24 students made posters which said, PREVENT FOREST FIRES. If 3 students worked on each poster, how many posters were made? 8 posters were made.	solve

SHARPENING YOUR SKILLS

Units 38,39

Name: _____ **Class:** _____ **Date:** _____

1. This array shows _____.

. . .
. . .
. . .
. . .

(a) 5 + 3 = 8
● 4 x 3 = 12
(c) 15 - 3 = 12
(d) 5 x 3 = 15

2. This number line shows _____.

(e) 3 + 9 = 12
● 4 x 3 = 12
(g) 12 ÷ 3 = 4
(h) 12 - 12 = 0

3. If 4 x 6 = 24 then 6 x [4] = 24

4. If 8 x 3 = 24 then 3 x [8] = 24

5. If 6 x [3] = 18 then 3 x 6 = 18

6. If 9 x 3 = 27 then [3] x 9 = 27

7. Another way to show 32 ÷ 4 is _____.

(a) 32 - 4
(b) 8 x 3
(c) $4\overline{)8}$
● $4\overline{)32}$

8. 7 children visited Riis Park in Queens. Each child brought 3 dollars. How much money did they have in all?

They had 21 dollars in all.

9. The children bought ice cream at a stand on the boardwalk. They received 32 pennies in change. If 4 children shared the pennies equally, how many pennies will each child get?

Each child will get 8 pennies.

10. 5 children each went swimming in the Atlantic Ocean 3 times during the day. How many swims did they have in all?

They had 15 swims in all.

P.O. 3.06.02.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

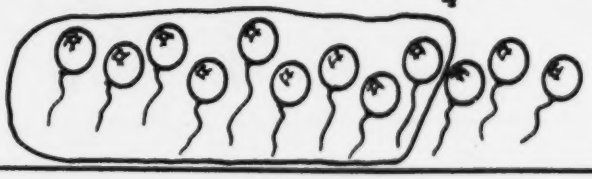
This basket will hold $\frac{2}{3}$ of the strawberries.

Draw a ring around $\frac{2}{3}$ of the strawberries.

$\frac{2}{3}$ of 6 = 4

Paul will buy $\frac{3}{4}$ of the balloons.

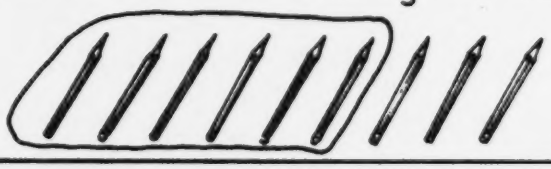
Draw a ring around $\frac{3}{4}$ of the balloons.



$\frac{3}{4}$ of 12 = 9

The pencil cup will hold $\frac{2}{3}$ of the pencils.

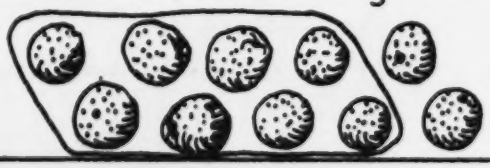
Draw a ring around $\frac{2}{3}$ of the pencils.



$\frac{2}{3}$ of 9 = 6

The pitcher will hold the juice of $\frac{4}{5}$ of the oranges.

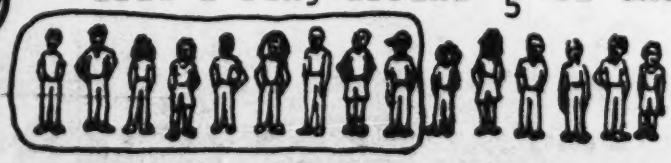
Draw a ring around $\frac{4}{5}$ of the oranges.



$\frac{4}{5}$ of 10 = 8

$\frac{3}{5}$ of the students will join the team.

Draw a ring around $\frac{3}{5}$ of the students.



$\frac{3}{5}$ of 15 = 9

P.O. 3.06.02.02

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below.

1. The distance around Central Park is 6 miles. If Charles ran $\frac{2}{3}$ of the distance, how far did he run? Charles ran 4 miles.	**solve** $\frac{2}{3}$ of 6 = 4
2. Sandy baked 20 cupcakes for the picnic in the park. $\frac{3}{4}$ of them were chocolate. How many chocolate cupcakes did Sandy bake? Sandy baked 15 chocolate cupcakes.	**solve**
3. 24 children entered the 3-legged relay race. $\frac{2}{6}$ of them were boys. How many boys entered the race? 8 boys entered the race.	**solve**
4. 10 children wanted to rent rowboats. There were enough rowboats for only $\frac{2}{5}$ of the children. How many children went rowing? 4 children went rowing.	**solve**
Do you remember? 18 children rented bicycles built for 2. If 2 children shared each bicycle, how many bicycles did they rent? They rented 9 bicycles.	**solve**

P.O. 3.10.07.01 & .02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete each line in the chart so the total value of the coins equals 1 dollar.

Coins Equal to $1.00				
half-dollars	quarters	dimes	nickels	pennies
1	1		2	
0	2	2		
0	0			
1	0			
		7		10
0	3			
			6	15

Answers will vary.

Solve the problems below.

1. Mrs. Greene's class went to the Museum of Natural History. Several students bought dinosaur figures, each costing 67¢. How much change did each student receive from a dollar?

   Each student received 33¢.

solve

2. The class had snacks at the Museum cafeteria. Maria bought an apple, a cookie, and milk for a total of 84¢. If she gave the cashier $1.00, how much change should she have gotten?

   She should have gotten 16¢ in change.

solve

3. After lunch Pete bought a postcard for 53¢. How much change did he receive from a $1.00 bill?

   He received 47¢.

solve

P.O. 3.10.07.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve the problems below.

1. Kevin will buy a model of the Empire State Building for $5.00. He has 3 one dollar bills and 4 quarters. How much more money does he need ?

   He needs 1 dollar more.

2. Bobby spent 3 dollars for a model Corvette. He gave the shop keeper a 5 dollar bill. Bobby received 1 dollar and several dimes in change.

   Bobby received 1 dollar and 10 dimes in change.

3. How can a cashier make 5 dollars change using bills only ?

   He gives 5 one dollar bills.

Circle the amounts which show five dollars.

a. 4 one dollar bills, 8 dimes, 4 nickels
b. 4 one dollar bills, 4 quarters
c. 4 one dollar bills, 3 quarters, 2 nickels, 5 pennies
d. 4 one dollar bills, 2 quarters, 4 nickels, 5 pennies

CHALLENGE!

Imagine that you are the cashier at Marvin's Models. List the combinations of bills and coins you can make from a twenty dollar bill.

Answers will vary.

P.O. 3.10.07.04

NAME: _____ CLASS: _____ DATE: _____

Cut out the money along the dotted lines.
Show all the ways you can make $10.00.
Paste each combination of $10.00 into your notebook.

SHARPENING YOUR SKILLS

Units 40, 41

Name: _____ Class: _____ Date: _____

1. Which number sentence is represented by this array?

(a) 8 - 4 = 4

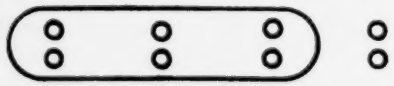
(b) $\frac{1}{3}$ of 15 = 5

(c) 12 - 5 = 7

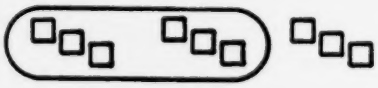
● $\frac{1}{3}$ of 12 = 4

2. Which picture represents $\frac{3}{4}$ of 8?

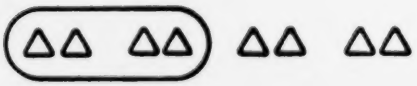
●



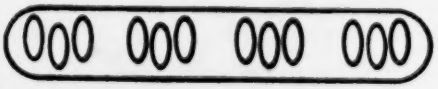
(f)



(g)



(h)



3. Shade $\frac{2}{5}$ of the apples.

4. Kevin spent 94¢. He gave the clerk $1.00. Which coins did he receive as change?

● 1 nickel, 1 penny

(b) 1 dime, 1 penny

(c) 1 quarter, 1 penny

(d) 4 pennies

5. Which group of coins is equal in value to $1.00?

(e) 3 quarters, 1 nickel

● 10 dimes

(g) 1 half-dollar, 1 nickel, 1 dime

(h) 10 nickels

6. Complete each sentence to make it true.

$10.00 equals 1 five dollar bill and _____.

$5.00 equals 2 one dollar bills and _____.

$1.00 equals 2 quarters and _____.

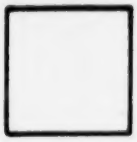
Answers will vary.

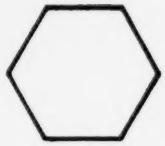
P.O. 3.09.03.01-.02

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Label each curve open or closed.





closed | closed | open | closed | open | closed

Draw some open curves.

Answers will vary.

Draw some closed curves.

Answers will vary.

Write an X on each complex closed curve.

Draw a complex closed curve in each box.

Answers will vary.

P.O. 3.13.02.01

NAME: _____ CLASS: _____ DATE: _____

Use the chart to answer the questions.

Five American Presidents	
President	Years in Office
Carter	1976 - 1980
Ford	1974 - 1976
Nixon	1968 - 1974
Johnson	1963 - 1968
Kennedy	1960 - 1963

1. For how many years was Jimmy Carter the president of the United States?

Jimmy Carter was president of the United States for 4 years.

2. How many years passed from the beginning of John Kennedy's term to the end of Richard Nixon's term?

14 years passed from the beginning of John Kennedy's term to the end of Richard Nixon's term.

3. Which president was in office for the greatest number of years?

Nixon was in office for the greatest number of years.

4. Who was president for the least number of years?

Ford was president for the least number of years.

5. Name three presidents whose years in office, taken together, total 15 years.

Carter, Nixon, and Johnson total 15 years in office.

P.O. 3.13.02.02

NAME:_____ CLASS:_____ DATE:_____

Read the story. Answer the questions below in complete sentences.

Sue, Maryanne, Arthur, and Josh wrote a report about the continents of the Earth. Sue read 17 pages about Africa and 6 pages about Antarctica. Maryanne read 15 pages about Asia and 15 pages about Australia. Arthur read 28 pages about Europe. Josh read 14 pages about North America and 8 pages about South America. Their teacher read their report and gave them all A's.

1. Who read the fewest pages? Josh read the fewest pages.

2. How many more pages were read about Europe than about North America? 14 more pages were read about Europe.

3. About which continent were the fewest pages read? The fewest pages were read about Antarctica.

4. How many pages did Sue, Maryanne, and Arthur read all together? 81 pages were read by Sue, Maryanne, and Arthur.

5. How many continents are there? There are 7 continents.

6. Who read a total of 30 pages? Maryanne read 30 pages.

P.O. 3.06.03.01 & .03

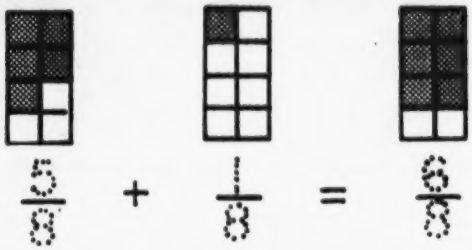
NAME: _____ CLASS: _____ DATE: _____

Complete the examples and solve the problems below.

Use the words in the word box to complete the sentences.

numerator
denominator
sum

When adding fractions with a common [denominator], add the [numerators]. Then write the [sum] over the [denominator].



$\frac{5}{8} + \frac{1}{8} = \frac{6}{8}$

$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$ $\quad \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ $\quad \frac{1}{6} + \frac{1}{6} = \frac{2}{6}$ $\quad \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ $\quad \frac{2}{5} + \frac{2}{5} = \frac{4}{5}$ $\quad \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ $\quad \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$

Use the picture to help you solve the problems.

Write a number story to show how much of the fence was painted.

$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

How much of the fence still needs to be painted?

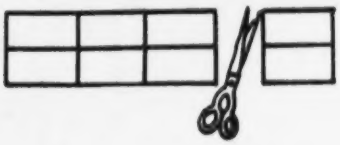
$\frac{1}{8}$ of the fence needs to be painted.

P.O. 3.06.03.01-.03

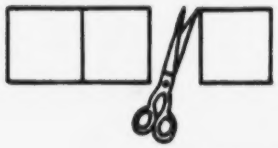
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

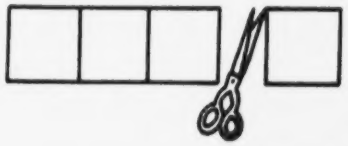
Complete the examples.



$\frac{8}{8} - \frac{2}{8} = \frac{6}{8}$



$\frac{3}{3} - \frac{1}{3} = \boxed{\frac{2}{3}}$



$\frac{4}{4} - \frac{1}{4} = \boxed{\frac{3}{4}}$

$$\begin{array}{r} \frac{5}{6} \\ -\frac{2}{6} \\ \hline \frac{3}{6} \end{array} \qquad \begin{array}{r} \frac{2}{5} \\ -\frac{1}{5} \\ \hline \frac{1}{5} \end{array} \qquad \begin{array}{r} \frac{5}{8} \\ +\frac{1}{8} \\ \hline \frac{6}{8} \end{array} \qquad \begin{array}{r} \frac{4}{4} \\ -\frac{2}{4} \\ \hline \frac{2}{4} \end{array} \qquad \begin{array}{r} \frac{3}{8} \\ +\frac{1}{8} \\ \hline \frac{4}{8} \end{array} \qquad \begin{array}{r} \frac{3}{6} \\ +\frac{2}{6} \\ \hline \frac{5}{6} \end{array} \qquad \begin{array}{r} \frac{2}{3} \\ -\frac{1}{3} \\ \hline \frac{1}{3} \end{array}$$

Solve the problems below.

When Meg, Rob, and I arrived at the party, some of the pizza had been eaten. What fractional part of the pie was left for us?

$\frac{5}{6}$ were left for us.

$\frac{2}{6}$ of the children were playing Pin the Tail on the Donkey.

$\frac{2}{6}$ of the children were playing Tag.

$\frac{2}{6}$ of the children were singing songs.

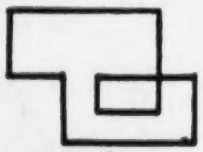
What fractional part of the group of children were playing games? $\frac{6}{6}$ were playing games.

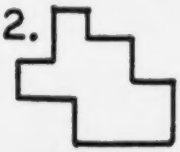
SHARPENING YOUR SKILLS

Units 42, 43,

Name: _____ Class: _____ Date: _____

Write the word simple or complex to describe each closed curve.

1. 
complex

2. 
simple

3.
complex

Draw a complex closed curve.

4. Answers will vary.

On July 4, 1986, over 99,000 people saw Operation Sail. One group saw 17 ships, each with 4 sails. Another group saw 19 ships, each with 12 sails. A third group saw 28 ships each with 9 sails.

5. How many ships did all 3 groups see? 64 ships

6. How many ships had fewer than 12 sails? 45 ships

7. How many more ships had 9 sails than 12 sails? 9 ships

8. $\frac{3}{8} + \frac{4}{8} = \square$

$\frac{7}{16}$ $\frac{1}{8}$ $\frac{1}{16}$ $\frac{7}{8}$

(a) (b) (c) ●

9. $\frac{3}{6} - \frac{2}{6}$

● $\frac{1}{6}$ (g) $\frac{6}{6}$

(f) $\frac{5}{6}$ (h) Not Here

10. Complete each example.

$\frac{1}{3} + \frac{1}{3} = \boxed{\frac{2}{3}}$

$\frac{3}{4} - \frac{1}{4} = \boxed{\frac{2}{4}}$

11. Jessica spent 10 minutes walking $\frac{2}{5}$ of the way toward Miss Liberty's crown. Then she slowed down and spent 15 minutes walking another $\frac{2}{5}$ of the way.

How far did she get in 25 minutes? $\frac{4}{5}$ of the way

P.O. 3.07.02.01.6.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Draw a line from each decimal to its equivalent fraction.

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
$\frac{3}{10}$	$\frac{6}{10}$	$\frac{1}{10}$	$\frac{5}{10}$	$\frac{9}{10}$	$\frac{2}{10}$	$\frac{4}{10}$	$\frac{8}{10}$	$\frac{7}{10}$

Solve the following examples.

$$\begin{array}{r} 0.2 \\ +\ 0.4 \\ \hline \boxed{0.6} \end{array} \qquad \begin{array}{r} \boxed{0.5} \\ +\ 0.2 \\ \hline 0.7 \end{array} \qquad \begin{array}{r} 0.6 \\ +\ \boxed{0.3} \\ \hline 0.9 \end{array}$$

$0.2 + 0.3 = \boxed{0.5}$

$\boxed{0.2} + 0.6 = 0.8$

$0.4 + \boxed{0.3} = 0.7$

Solve each problem.

During the first week of April there were 0.3 inches of rain. The second and third weeks had a total of 0.4 inches of rain. How much rainfall was there during the first 3 weeks in April?

There were 0.7 inches of rain during the first 3 weeks of April.

The students in the science class measured the growth of tulip bulbs in the school garden. Some bulbs grew 0.4 inches in the first week of April and 0.5 inches in the second week of April. How tall did these bulbs grow in 2 weeks?

They grew 0.9 inches in 2 weeks.

P.O. 3.07.02.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve the examples. Rewrite them in vertical format.

0.4 - 0.2 = 0.2 0.4 − 0.2 0.2	0.5 - 0.3 = 0.2 0.5 − 0.3 0.2	0.6 - 0.1 = 0.5 0.6 − 0.1 0.5
0.7 - 0.3 = 0.4 0.7 − 0.3 0.4	0.9 - 0.6 = 0.3 0.9 − 0.6 0.3	0.8 - 0.5 = 0.3 0.8 − 0.5 0.3

Solve each problem.

solve

Howard and Joel built ant farms in jars. Howard filled 0.9 inches of his jar with sand. Joel filled 0.6 inches of his jar with sand. How much more sand was in Howard's jar?

Howard's jar had 0.3 more inches of sand.

solve

The gas tanks in Ellen's and Shari's cars are almost filled to the top. Ellen needs 0.8 gallons more. Shari needs 0.5 gallons more. How much less does Shari need?

Shari needs 0.3 gallons less than Ellen.

CHALLENGE!

8.9	9.2	11.6	5.2	15.2
− 2.7	− 3.1	+ 0.3	+ 2.8	− 3.6
6.2	6.1	11.9	8.0	11.6

P.O. 3.12.02.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Predict how many times heads or tails would come up if you toss a coin 10 times.

Prediction Box

Heads	Tails
5	5

Toss a coin 10 times and tally your results.

Answers will vary.

Tally of Tosses

Heads	Tails

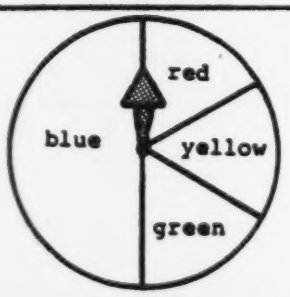
What is the difference between your prediction and your actual results? _____

Answers will vary.

Use the words in the answer box to complete the sentences below.

Answer Box

possible	predict	unlikely
probable	less likely	impossible



1. It is __probable__ to spin a blue.
2. It is __possible__ to spin a yellow.
3. It is __impossible__ to spin a white.
4. Can you __predict__ the outcome without spinning?

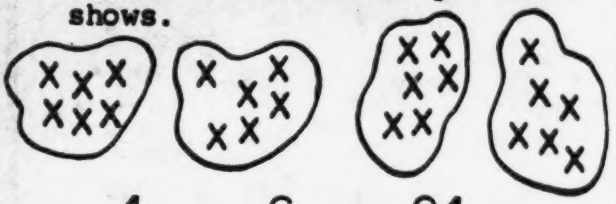
P.O. 3.04.06.01 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

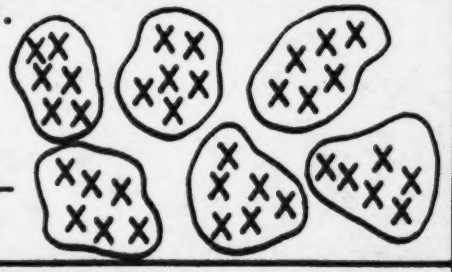
Complete the number sentences for questions 1 - 4.

1. Write the multiplication sentence which this picture shows.



4 x 6 = 24

2. Write the multiplication example which this picture shows.



$$\begin{array}{r} 6 \\ \times\ 6 \\ \hline 36 \end{array}$$

3. Write the multiplication example which means the same as:

6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = ☐

$$\begin{array}{r} 6 \\ \times\ 8 \\ \hline 48 \end{array}$$

4. Complete each example.

5 x 6 = 30

7 x 6 = 42

3 x 6 = 18

$$\begin{array}{r} 6 \\ \times\ 1 \\ \hline 6 \end{array} \qquad \begin{array}{r} 6 \\ \times\ 9 \\ \hline 54 \end{array}$$

Solve the problems below.

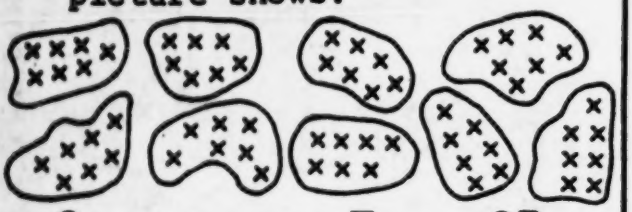
5. In Cora's building, each story is exactly 8 feet high. If there are 6 stories in the building, how high is the roof from the street? The roof is 48 feet high.	solve
6. On the first floor of Cora's building there are 6 apartments. Each apartment has 6 rooms. How many rooms are there on the first floor? There are 36 rooms.	solve
7. The Marks family has 6 daughters. The Stone family has 6 sons. The Lee family has 6 daughters. How many children are in the 3 families? There are 18 children in the 3 families.	solve
8. The building superintendent must repair 4 windows. Each window has 6 broken window panes. How many window panes must he replace? He must replace 24 window panes.	solve

P.O. 3.04.06.02&.04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

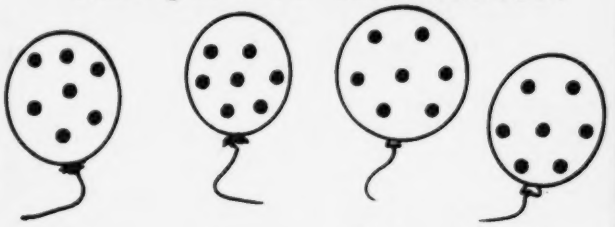
1. Write the multiplication sentence which this picture shows.



9 groups of 7 = 63

9 x 7 = 63

2. Write the example which this picture illustrates.



4 groups of 7 = 28

4 x 7 = 28

3. Write the multiplication sentence which means the same as:

7+7+7+7+7+7+7 = 49

7 x 7 = 49

4. Complete each example.

7 x2	7 x8	7 x7	7 x5
14	56	49	35

1 x 7 = 7

3 x 7 = 21

Solve the problems below.

5. In Paul's Pet Shop, there are 4 bird cages. Each cage holds 7 parrots. How many parrots are there in all?

There are 28 birds in all.

solve

6. Paul sold 7 packages of bird seed on each of 6 days. How many packages did he sell?

Paul sold 42 packages.

solve

Do you remember?

Mr. Green's peach orchard in Georgia has 523 trees. Mrs. Smith's apple orchard in New York has 237 trees. Mrs. Rivera's orange orchard in Florida has 419 trees. How many more fruit trees has Mr. Green than Mrs. Rivera?

104 more fruit trees.

solve

P.O. 3.04.06.01-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

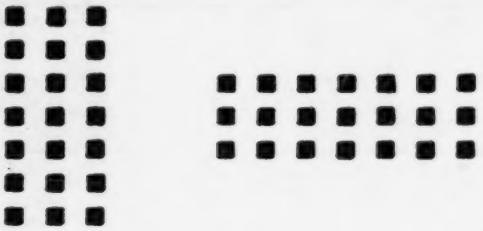
Complete each number sentence.

① $5 \times 6 = \boxed{30}$ $6 \times 5 = \boxed{30}$

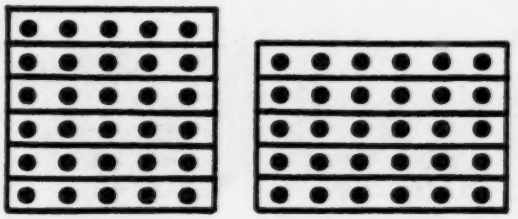
$5 \times 6 = 6 \times \boxed{5}$

② $\begin{array}{r} 8 \\ \times\ 7 \\ \hline 56 \end{array}$ $\begin{array}{r} 7 \\ \times\ 8 \\ \hline 56 \end{array}$

$7 \times 8 = \boxed{8} \times 7$

③ 

$7 \times \boxed{3} = 3 \times \boxed{7}$

④ 

$\boxed{6} \times 5 = 5 \times \boxed{6}$

Solve each problem.

5. Gondolas are long, narrow boats. The lake in Central Park has gondolas which hold 6 people each. If there are 3 gondolas on the lake, each holding 6 people, how many people are riding in gondolas?

Solve

18 people are riding in gondolas.

6. Rowboats on the lake hold 7 people each. 9 full rowboats were on the lake. How many people were in rowboats?

Solve

63 people were in the rowboats.

CHALLENGE!

Solve

Sara pushed a gondola 5 days a week for 7 weeks. Walter pushed a gondola 7 days a week for 5 weeks. How many days did Sara and Walter work in all?

They worked 70 days in all.

SHARPENING YOUR SKILLS

Units 44,45,46,47

Name: _____ **Class:** _____ **Date:** _____

1. Which sum will make both examples true?

$$\begin{array}{r} 0.4 \\ +\ 0.3 \\ \hline \end{array} \qquad 0.4 + 0.3 = \square$$

0.1 (a) 0.7 (●) 4.3 (c) 7.0 (d)

2. Which vertical example will have the same difference as $0.9 - 0.3 = \square$

9.0	0.9	9.0	0.9
− 3.0	+0.3	−0.3	−0.3
(e)	(f)	(g)	(●)

3. During a winter storm we measured the daily snowfall. On Monday, there were 0.8 cm of snow. On Tuesday there was 0.1 cm of snow.

How much snow had fallen on Monday and Tuesday?
0.9

How much more snow fell on Monday than on Tuesday?
0.7

4. Complete each number sentence.

$5 \times 7 = \boxed{7} \times 5$

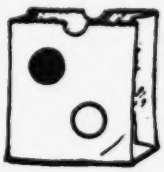
$\boxed{8} \times 6 = \boxed{6} \times 8$

$3 \times 7 = 7 \times \boxed{3}$

5. Pretend you are tossing a coin 100 times. Which prediction would you make about the possible outcome of 100 tosses?

	Heads	Tails	Total Flips
(a)	100	0	100
(b)	0	100	100
(●)	50	50	100

6. Pretend you are reaching into the bag without looking and pick a marble. Replace it and repeat that 50 times. You would probably draw _____.

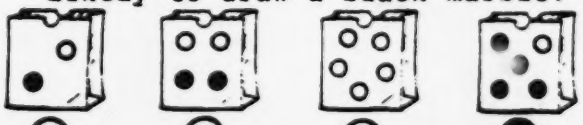


(d) the black marble most of the time.

(e) the white marble most of the time.

(●) the white and black marble about the same number of times.

7. From which bag are you most likely to draw a black marble?



(a) (b) (c) (●)

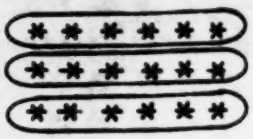
8. Julio went to the dentist for his checkup. He was asked to return in six weeks. How many days is that?
42 days.

P.O. 3.05.04.01 & .03

NAME:_____ CLASS:_____ DATE:_____

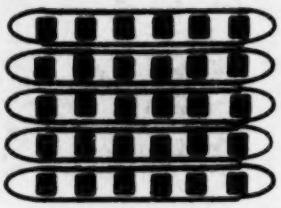
Follow the directions below.

For each array write 2 division examples.



18 ÷ 6 = 3

$6\overline{)18}$ 3

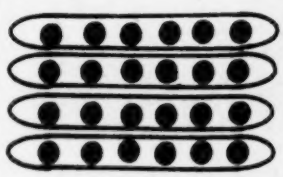


30 ÷ 6 = 5

$6\overline{)30}$ 5

12 ÷ 6 = 2

$6\overline{)12}$ 2



24 ÷ 6 = 4

$6\overline{)24}$ 4

Solve and check.

$6\overline{)6}$ 1 check: $6 \times 1 = 6$	$6\overline{)12}$ 2 check: $6 \times 2 = 12$	$6\overline{)36}$ 6 check: $6 \times 6 = 36$
$6\overline{)24}$ 4 check: $6 \times 4 = 24$	$6\overline{)30}$ 5 check: $6 \times 5 = 30$	$6\overline{)18}$ 3 check: $6 \times 3 = 18$
$6\overline{)42}$ 7 check: $6 \times 7 = 42$	$6\overline{)48}$ 8 check: $6 \times 8 = 48$	$6\overline{)54}$ 9 check: $6 \times 9 = 54$

Solve the problems.

Not too long ago, postcards cost 6¢. How many postcards could you buy for 30¢?

You could buy 5 postcards for 30¢. (6¢)

Letters always cost more to mail than postcards. If you spent 54¢ and mailed 6 letters, how much did each letter cost to mail?

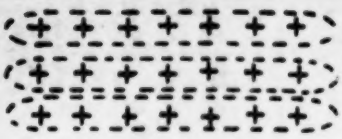
Each letter cost 9¢ to mail.

P.O. 3.05.04.02-.03

NAME: _____ CLASS: _____ DATE: _____

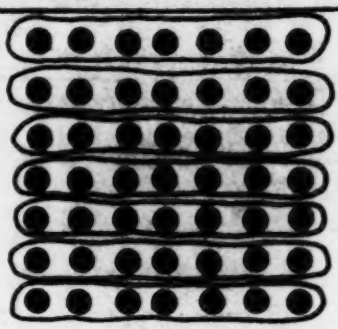
Follow the directions below.

Circle groups of 7. Write and check a division example for each.

① 

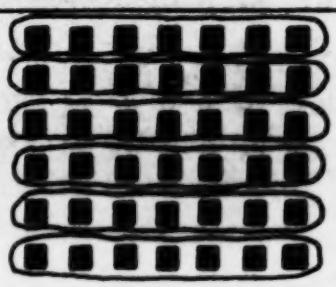
21 ÷ 7 = 3

3 x 7 = 21

② 

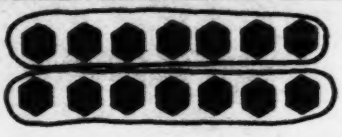
49 ÷ 7 = 7

7 x 7 = 49

③ 

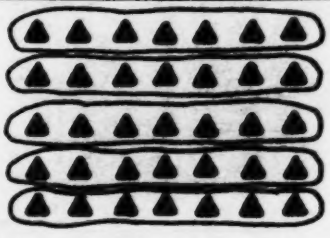
42 ÷ 7 = 6

6 x 7 = 42

④ 

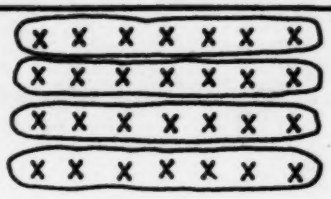
14 ÷ 7 = 2

2 x 7 = 14

⑤ 

35 ÷ 7 = 5

5 x 7 = 35

⑥ 

28 ÷ 7 = 4

4 x 7 = 28

⑦ **Solve the problem.**

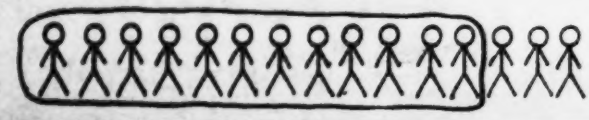
A U.S. Olympic bicycle racer trained for a total of 49 hours during the entire week before the race. If the racer trained for an equal number of hours each day, for how many hours a day was she in training?

She was in training for 7 hours a day.

Do you remember?

$\frac{4}{5}$ of the U.S. Olympic broadjump team will compete.

Draw a ring around $\frac{4}{5}$ of the team.

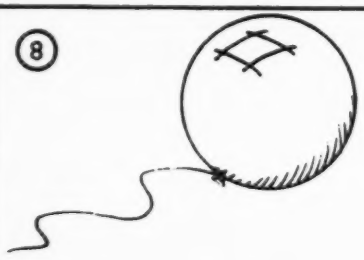
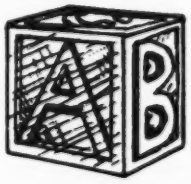


$\frac{4}{5}$ of 15 = 12

P.O. 3.09.04.01

NAME: _____ CLASS: _____ DATE: _____

Write the name of each shape (cone, cylinder, sphere, or cube) under each picture.

① A party hat is a **cone**.	② A soup can is a **cylinder**.	③ The Earth is a **sphere**.
④ A ball is a **sphere**.	⑤ This gift box is a **cube**.	⑥ The cracker that holds the ice cream is a **cone**.
⑦ A water pipe is a **cylinder**.	⑧  This balloon is a **sphere**.	⑨  A baby's block is a **cube**.

DO YOU REMEMBER?

*Answers will vary.

$1.00 = * quarters, * dimes, and * pennies

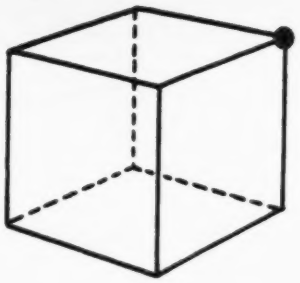
$5.00 = 3 one dollar bills, * half-dollars, and * pennies

$10.00 = 1 five dollar bill, and 20 quarters

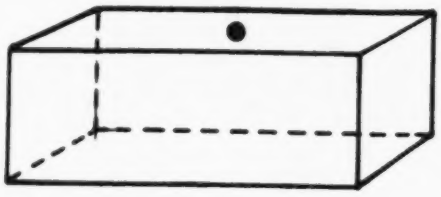
P.O. 3.09.04.02

NAME: _____ CLASS: _____ DATE: _____

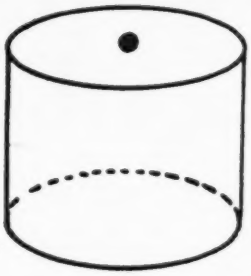
Write the name of the part of each figure (vertex, face, edge, or angle) which is marked with the dot.

① 

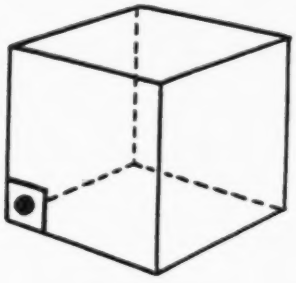
The dot is on the vertex.

② 

The dot is on the face.

③ 

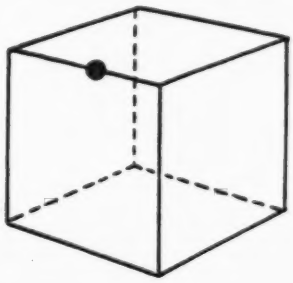
The dot is on the face.

④ 

The dot is on the angle.

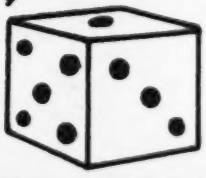
⑤

The dot is on the vertex.

⑥ 

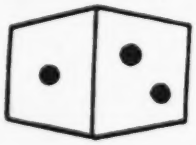
The dot is on the edge.

CHALLENGE! Some of the faces on the dice are hidden. How many faces are hidden on each die?



3 faces are hidden.

5 faces are hidden.

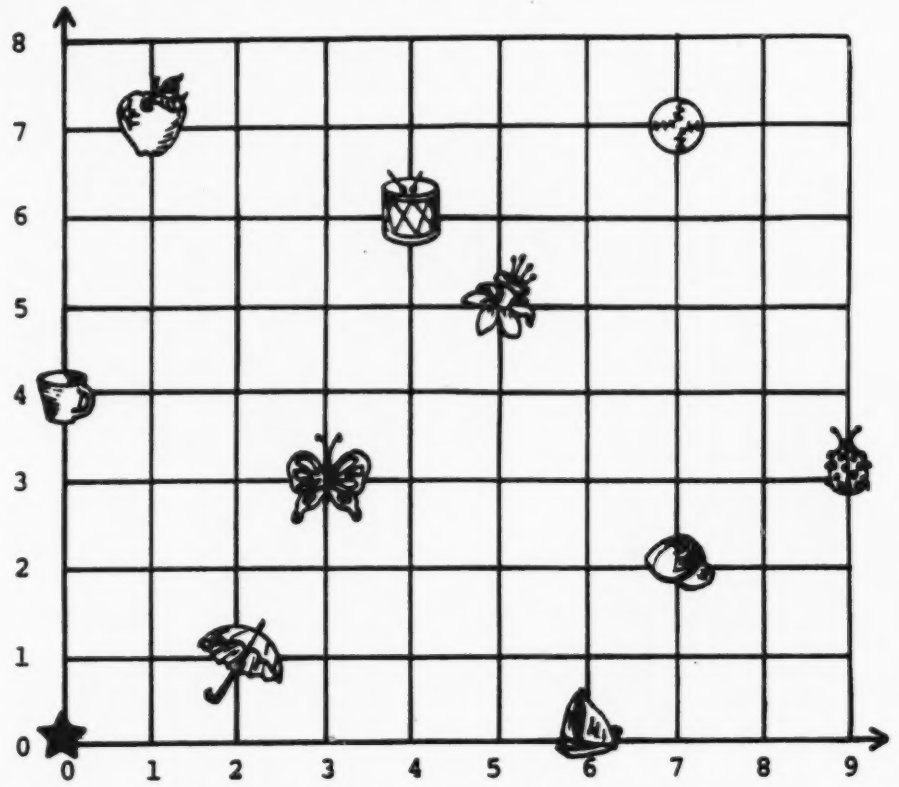


4 faces are hidden.

P.O. 3.09.05.01-.02

NAME: _____ CLASS: _____ DATE: _____

Use the grid to answer the questions below.



1. To get from the star to the butterfly, we must go to the right ___3___ spaces and then up ___3___ spaces.
2. To get from the star to the ladybug, we must go the right ___9___ spaces and then up ___3___ spaces.
3. To get from the star to the baseball, we must go the right ___7___ spaces and then up ___7___ spaces.

Write the ordered pairs which give the location for each.

The first is done for you. baseball ___(7,7)___

apple	(1,7)	sailboat	(6,0)	cup	(0,4)
flower	(5,5)	butterfly	(3,3)	drum	(4,6)
ladybug	(9,3)	umbrella	(2,1)	cap	(7,2)

P.O. 3.04.07.01 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

The Lady with the Light Is Quite a Sight.

Who is the lady? Solve each multiplication example. Use the Key to place the letters in the spaces on the chart.

5 x5	8 x5	8 x7	8 x5	8 x1	8 x3		8 x6	8 x0		8 x8	8 x2	6 x6	8 x3	8 x9	8 x5	8 x4
25	40	56	40	8	24		48	0		64	16	36	24	72	40	32
S	T	A	T	U	E		O	F		L	I	B	E	R	T	Y

Key			
25 = S	40 = T	8 = U	36 = B
56 = A	0 = F	48 = O	32 = Y
24 = E	64 = L	16 = I	72 = R

Solve the problems.

6 students went up to Miss Liberty's torch. Each student released 8 balloons over the harbor. How many balloons were released?

48 balloons were released.

In 1 school there were 8 students from each of 5 classes who entered the Miss Liberty poetry contest. How many students entered the contest?

40 students entered the contest.

P.O. 3.04.07.01,.02,.04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write the product for each example.

8 x1	8 x2	8 x3	8 x4	8 x5	8 x6	8 x7	8 x8	8 x9
8	16	24	32	40	48	56	64	72

1 x 9 = 9	4 x 9 = 36	7 x 9 = 63
2 x 9 = 18	5 x 9 = 45	8 x 9 = 72
3 x 9 = 27	6 x 9 = 54	9 x 9 = 81

Solve the following examples. Then write them in vertical format.

6 x 9 = 54	5 x 9 = 45	7 x 9 = 63

9 x 6 54	9 x 5 45	9 x 7 63

Solve the problems.

In January, 9 students lost their red mittens. In February, 9 students lost their green mittens. In March, 9 students lost their blue mittens. How many students lost their mittens during these 3 months?

27 students lost their mittens.

From January through May, 8 students wrote stories about the holidays. Each student wrote 1 story each month. There were 40 stories written in all.

P.O. 3.04.07.03

NAME: _____ CLASS: _____ DATE: _____

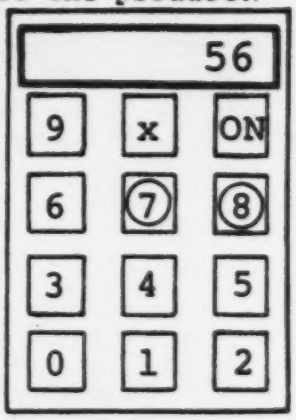
Follow the directions below.

Complete each open number sentence.

8 x 9 = 72 9 x 8 = [72]	7 x 8 = 56 8 x 7 = [56]	5 x 9 = 45 9 x 5 = [45]
3 x 8 = 24 [8] x 3 = 24	9 x 8 = [72] 8 x 9 = [72]	6 x [9] = 54 [9] x 6 = 54
9 x 8 = [8] x 9	[6] x 8 = 8 x 6	3 x 9 = 9 x [3]

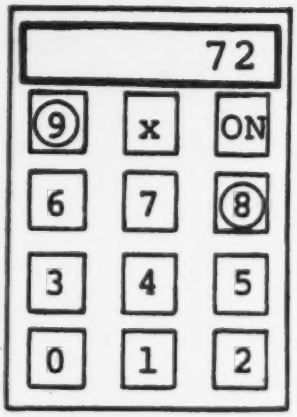
CALCULATOR RIDDLES

Circle the two buttons that were pressed on each calculator to get the product..



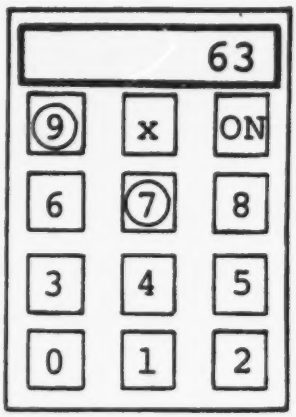
[7] x [8] = 56

[8] x [7] = 56



[9] x [8] = 72

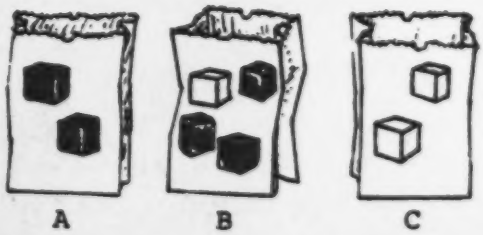
[8] x [9] = 72



[9] x [7] = 63

[7] x [9] = 63

Do you remember?



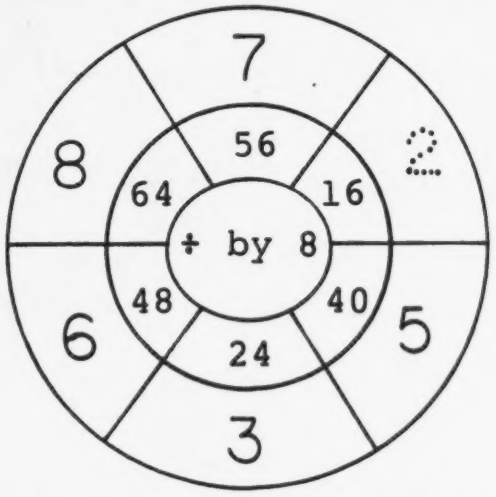
1. From which bag are you certain to draw a white cube? C
2. From which bag is it impossible to draw a white cube? A
3. From which bag are you most likely to draw a black cube? A

P.O. 3.05.05.01 & .03

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Complete the division wheel.



Solve each example and check.

$8\overline{)8}$ = 1 check: $8 \times 1 = 8$

$8\overline{)32}$ = 4 check: $8 \times 4 = 32$

$8\overline{)72}$ = 9 check: $8 \times 9 = 72$

Write a question for each problem and solve.

Bob has been raising sheep in Australia. His 56 sheep share 8 pens equally.

Question: How many sheep are in each pen?

solve

$56 \div 8 = 7$

Surfing is very popular in Australia. There are a total of 32 surfers on all 8 teams.

Question: How many surfers are on each team?

solve

$32 \div 8 = 4$

Do you remember?

Two large groups of kangaroos joined to make a single group. One group had 369 kangaroos and the other group had 376 kangaroos. How many kangaroos are there in the new group?

There are 745 kangaroos in the new group.

P.O. 3.05.05.02-.03

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Solve each division example. Rewrite each example horizontally and check.

$9\overline{)18}$ 2 18÷9=2 check 2×9=18	$9\overline{)36}$ 4 36÷9=4 check 4×9=36	$9\overline{)54}$ 6 54÷9=6 check 6×9=54	$9\overline{)72}$ 8 72÷9=8 check 8×9=72	$9\overline{)27}$ 3 27÷9=3 check 3×9=27
$9\overline{)45}$ 5 45÷9=5 check 5×9=45	$9\overline{)81}$ 9 81÷9=9 check 9×9=81	$9\overline{)72}$ 8 72÷9=8 check 8×9=72	$9\overline{)63}$ 7 63÷9=7 check 7×9=63	$9\overline{)9}$ 1 9÷9=1 check 1×9=9

Solve each problem.

solve

54 live parrots were captured in the Amazon Jungle. An equal number of these parrots were sent to 9 zoos in the United States. How many parrots were sent to each zoo?

6 parrots

solve

9 people went on the parrot hunt. There were photographers, bird experts, students, jeep drivers, and a doctor. The cooking was shared equally during the 18 days of the hunt. For how many days did each person have to cook?

2 days

P.O. 3.11.02.01

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

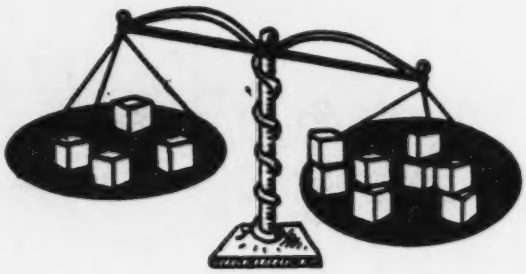
Complete each sentence by writing greater than, less than, or equal to.

The symbol, < means less than.

The symbol, > means greater than.

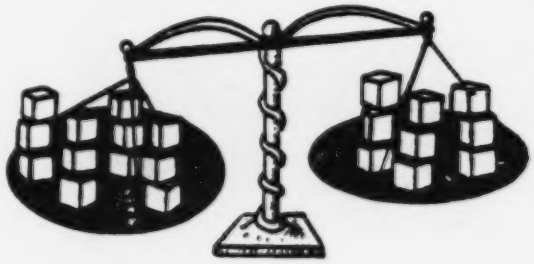
The symbol, = means equal to.

Fill in the circle next to the inequality which is true for each picture.



(a) 8 + 2 > 8 (c) 8 + 4 > 2

(b) 8 - 4 < 12 ● 2 + 2 < 8



● 12 > 6 + 3 (g) 9 + 1 < 22

(f) 12 + 1 > 9 (h) 10 < 12 + 10

Write > or < in each ◯ to make the statements true.

6 + 3 (>) 8 4 x 5 (>) 9 9 (>) 3 + 3

3 x 2 (<) 7 8 + 4 (<) 14 17 (>) 4 x 4

12 + 6 (>) 16 7 + 8 (>) 10 21 (<) 8 x 3

CHALLENGE! Write >, <, or = in each ◯ to make the statements true.

7 x 8 (>) 8 + 5 5 + 3 + 9 (<) 18

9 x 4 (=) 6 x 6 4 x 8 (=) 8 x 4

3 x 3 (>) 3 + 3 6 + 2 + 6 (=) 10 + 3 + 1

P.O. 3.11.02.02

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Circle the numbers which belong in the solution set for each inequality. Then write the solution set.

① $\square + 8 < 12$

⓪, ①, ②, ③, 4, 5, 6, 7, 8, 9

solution set = { 0, 1, 2, 3 }

② $\square + 8 < 9$

⓪, 1, 2, 3, 4, 5, 6, 7, 8, 9

solution set = { 0 }

③ $6 \times \square < 36$

⓪, ①, ②, ③, ④, ⑤, 6, 7, 8, 9

solution set = {0, 1, 2, 3, 4, 5}

④ $\square \times 5 < 20$

⓪, ①, ②, ③, 4, 5, 6, 7, 8, 9

solution set = {0, 1, 2, 3}

⑤ $3 \times \square < 15$

⓪, ①, ②, ③, ④, 5, 6, 7, 8, 9

solution set = {0, 1, 2, 3, 4}

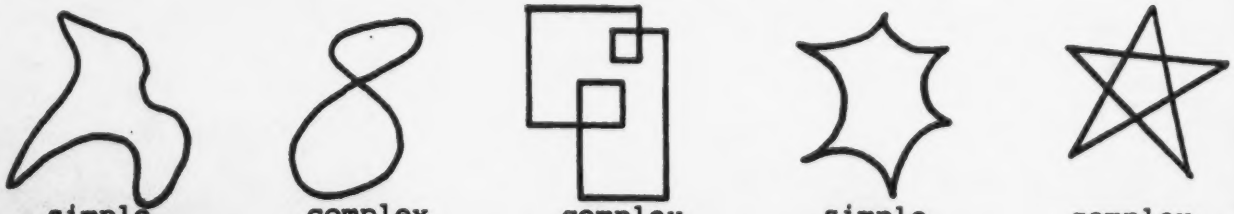
⑥ $\square + 7 < 16$

⓪, ①, ②, ③, ④, ⑤, ⑥, ⑦, ⑧, 9

solution set = {0, 1, 2, 3, 4, 5, 6, 7, 8}

Do you remember?

Describe each closed curve by writing simple or complex.



simple | complex | complex | simple | complex

SHARPENING YOUR SKILLS

Units 51,52,53

Name: _____ **Class:** _____ **Date:** _____

1. Multiply.

8 x2	9 x5	9 x7	8 x6
16	45	63	48

3 x 9 = 27

6 x 9 = 54

5 x 8 = 40

9 x 8 = 72

2. Write the missing factors and products.

7 x 8 = 8 x 7 = 56

4 x 9 = 9 x 4 = 36

8 x 3 = 3 x 8 = 24

0 x 8 = 8 x 0 = 0

3. Eight baseball teams played ball in Flushing Meadow Park. There were 9 players on each team. How many players were there in all?

There were 72 players in all.

4. Divide and check.

	check
27 ÷ 9 = 3	3 x 9 = 27
40 ÷ 8 = 5	5 x 8 = 40
24 ÷ 8 = 3	3 x 8 = 24
8	9 x 8 = 72
9)72	
2	9 x 2 = 18
9)18	

5. Which of the following best describes the inequality:

3 + 4 < 9 ?

(a) Three plus four is greater than nine.

● Three plus four is less than nine.

(c) Nine is less than three plus four.

(d) Three plus four is equal to nine.

6. Which is the solution set for

□ x 8 < 16?

● {0, 1}

(f) {0, 1, 2}

(g) {0, 1, 2, 3}

(h) {0, 1, 2, 3, 4}

P.O. 3.04.08.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve the examples in 1-4 by writing a number in each box.

① 8 x 10 = 80
5 x 10 = 50
1 x 10 = 10
7 x 10 = 70

② 10 x 2 = 20 | 10 x 6 = 60 | 10 x 4 = 40

③ 4 x 10 = 40
10 x 4 = 40
4 x 10 = 10 x 4

④ 9 x 10 = 10 x 9
10 x 8 = 8 x 10
10 x 6 = 6 x 10

⑤ Complete the number patterns.

10, 20, 30, 40, 50, 60.

50, 60, 70, 80, 90, 100.

⑥ Complete the sentences.

If 4 x 10 = 40, then 10 x 4 = 40.

If 10 x 7 = 70, then 7 x 10 = 70.

If 1 x 10 = 10, then 10 x 1 = 10.

Solve the problems.

⑦ Janie had 8 dimes in her pocket.

Eight dimes = 80 cents.

⑧ Every floor of a building is 10 feet higher than the floor below it. How high is the sixth floor?

The sixth floor is 60 feet high.

P.O. 3.04.08.03 - .04

NAME:_____ CLASS:_____ DATE:_____

Find an example in the first column which has the same product as an example in the second column. Complete each sentence in the third column.

1. (6 x 4) x 10	a. 7 x (10 x 3)	Number 1 and letter g have the same product.
2. 6 x 70	b. 10 x (2 x 6)	Number 2 and letter h have the same product.
3. (7 x 10) x 3	c. 4 x (10 + 10 + 10 + 10)	Number 3 and letter a have the same product.
4. 4 x (5 x 10)	d. 6 x (10 + 10 + 10 + 10 + 10)	Number 4 and letter e have the same product.
5. 9 x 20	e. 8 x (10 + 10 + 10)	Number 5 and letter j have the same product.
6. (10 x 2) x 6	f. (3 x 9) x 10	Number 6 and letter b have the same product.
7. 3 x (10 x 9)	g. (4 x 5) x 10	Number 7 and letter f have the same product.
8. 6 x 50	h. (10 x 6) x 7	Number 8 and letter d have the same product.
9. (8 x 10) x 4	i. 10 x (8 x 4)	Number 9 and letter i have the same product.
10. 4 x 40	j. 9 x (10 + 10)	Number 10 and letter c have the same product.

P.O. 3.04.08.05

NAME:_____ CLASS:_____ DATE:_____

Solve the problems below.

①

20	40	60	80
x 6	x 4	x 6	x 7
120	160	360	560

②

7 x 50 = 350

3 x 30 = 90

2 x 90 = 180

4 x 80 = 320

③

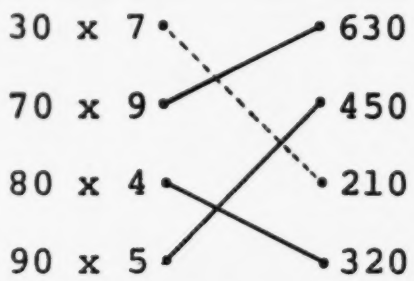
20 x 2 = 2 x 20 = 40

50 x 9 = 9 x 50 = 450

30 x 7 = 7 x 30 = 210

60 x 5 = 5 x 60 = 300

④



⑤ Each ferry going to Bear Mountain State Park carried 70 students. If there were 4 ferries, how many students went to the park?

280 students went to the park.

⑥ 60 students went fishing in the Hudson River. They each brought 2 fish home. How many fish were brought home in all?

120 fish were brought home.

Do you remember?

132 students rented bicycles at the park. 58 students rented rowboats. How many fewer students went rowing than bicycling?

74 fewer students went rowing.

4 boys shared food for the picnic. Phil spent $14.85. Dave spent $6.08. Chuck spent $10.90. Hal spent $2.00. How much money did the 4 boys spend on the picnic?

The boys spent $33.83 on the picnic.

P.O. 3.13.03.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete the patterns and write the rule.

	Rule
0, 1, 2, 3, 4, [5], [6]	Counting by ones. Add 1.
20, 18, 16, 14, 12, [10], [8]	Subtracting two; counting backward by two.
0, 5, 10, 15, 20, [25], [30]	Counting by fives; adding five.
42, 36, 30, 24, 18, [12], [6]	Counting backward by six; subtracting six.
18, 27, 36, 45, 54, [63], [72]	Counting by nines; adding nine.

Read the rule. Form a pattern for the rule.

Answers will vary.

Rule	
Add 4.	8, 12, 16, 20, 24
Counting backward by 10.	___, ___, ___, ___, ___
Subtract 2.	___, ___, ___, ___, ___
Counting forward by 7.	___, ___, ___, ___, ___

Do you remember?

10 minutes before 12

26 minutes of 5

6 minutes to 6

P.O. 3.13.03.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Arrange each group of numbers to form a pattern. Then write the rule.

(A) 5, 20, 30, 10, 25, 15 Rule: Counting by fives;

5, 10, 15, 20, 25, 30 Adding 5.

(B) 15, 9, 21, 18, 12, 24 Rule: Counting by threes;

9, 12, 15, 18, 21, 24 adding three

(C) 36, 24, 30, 54, 48, 42 Rule: Counting by sixes;

24, 30, 36, 42, 48, 54 adding six

(D) 24, 48, 32, 56, 40, 16 Rule: Counting by eights;

16, 24, 32, 40, 48, 56 adding eight

CHALLENGE! What is the pattern?

The third number must be odd.
The second number must be double the first.
The last number must be less than 30.
The fourth number must equal 10 + 10.

5	10	15	20	25

Rule: Counting by fives; adding five

SHARPENING YOUR SKILLS

Units 54, 55

Name: _____ Class: _____ Date: _____

The Magic Vase

When I drop a number in the magic vase, it is a different number when it comes out. How does my magic vase change the numbers?

4 → 40	6 → 60	3 → 30	9 → 90	2 → 20	5 → 50	8 → 80	1 → 10	7 → 70

What did my magic vase do? It multiplied each number by 10.

Complete the pattern. Write the rule.

9, 12, 15, 18, 21, 24

Rule: Counting by threes; adding three

50, 45, 40, 35, 30, 25

Rule: Counting backward by five; subtracting five

Rearrange each group of numbers to make a pattern.

80, 20, 100, 40, 60

20, 40, 60, 80, 100

12, 20, 8, 24, 16

8, 12, 16, 20, 24

Write the missing numbers.

(2 x 4) x 10 = 2 x (4 x 10)

8 x 10 = 2 x 40

80 = 80

P.O. 3.04.09.01

NAME: _____ CLASS: _____ DATE: _____

Complete each sentence below.

x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	
2	0	2	4	6	8	10	12		16	18	20
3	0	3	6	9	12		18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30		42	48	54	60
7	0	7	14	21		35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64		80
9		9	18	27	36	45	54	63		81	90
10	0	10	20	30	40	50	60	70	80	90	100

Complete the chart. Then write a multiplication sentence and its product for each missing number.

3 x 1 = 3

0 x 4 = 0

2 x 2 = 4

2 x 9 = 18

3 x 9 = 27

4 x 3 = 12

6 x 9 = 54

8 x 6 = 48

8 x 7 = 56

9 x 10 = 90

The is covering 14.

The is covering 40.

The is covering 28.

The is covering 36.

The is covering 72.

The is covering 15.

The is covering 0.

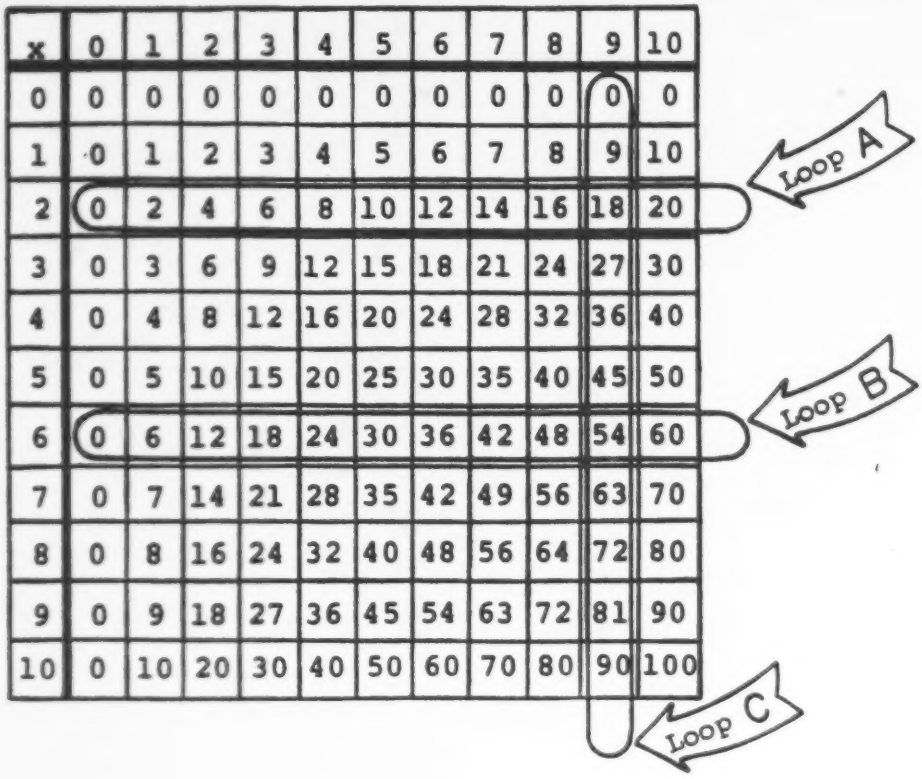
The is covering 10.

The is covering 72.

P.O. 3.04.09.02

NAME:_____ CLASS:_____ DATE:_____

Find a pattern in each of the loops.



x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Loop A counting by two's; adding two

Loop B counting by sixes; adding six

Loop C counting by nines; adding nine

Draw loops around 3 more groups of numbers. Label the loops. Explain the patterns.

Loop D Answers will vary.

Loop E Answers will vary.

Loop F Answers will vary.

P.O. 3.12.03.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

List the arrangements for each set of items below.

{ △, □, ○ }

1. △,○,□
2. □,△,○
3. □,○,△
4. ○,□,△
5. ○,△,□
6. △,□,○

{ 1, 5, 3, 6 }

1. 1,5,3,6
2. 1,3,6,5
3. 1,3,5,6
4. 1,5,6,3
5. 1,6,5,3
6. 1,6,3,5
7. 5,1,3,6
8. 5,3,1,6
9. 5,6,1,3
10. 5,6,3,1
11. 5,1,6,3
12. 5,3,6,1
13. 3,1,5,6
14. 3,1,6,5
15. 3,5,1,6
16. 3,5,6,1
17. 3,6,1,5
18. 3,6,5,1
19. 6,1,5,3
20. 6,1,3,5
21. 6,5,1,3
22. 6,5,3,1
23. 6,3,5,1
24. 6,3,1,5

CHALLENGE!

Have you seen the pattern?

The number of arrangements that can be made with 3 items is 6 or 3 x 2 x 1 = 6. The number of arrangements that can be made with 4 items is 24 or 4 x 3 x 2 x 1 = 24.

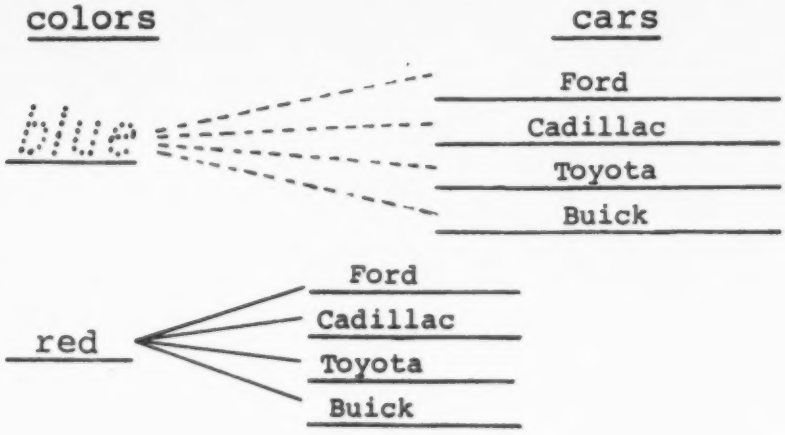
Use this formula to find the number of arrangements you can make with 5 items. 5 x 4 x 3 x 2 x 1 = 120.

P.O. 3.12.03.02

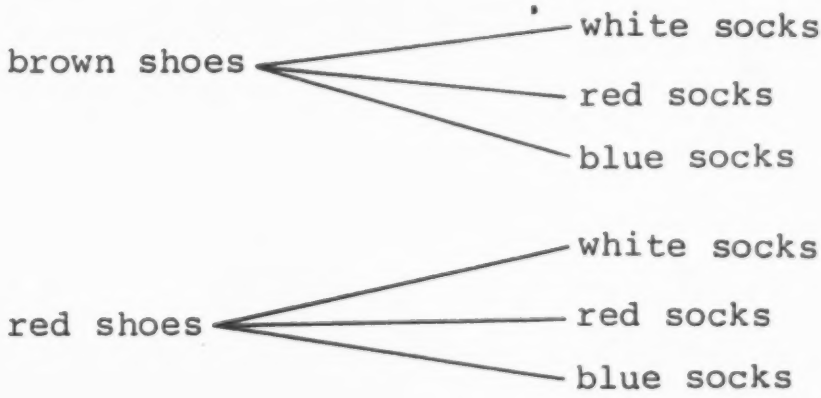
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Fords, Cadillacs, Toyotas, and Buicks are sold in either red or blue. Make a tree diagram to show the combinations of cars and colors.



Make a tree diagram to show the combinations of shoes with socks. Use the following data:
brown shoes, red shoes
white socks, red socks, blue socks



Do you remember?

In the Olympics there were 28 swimmers from 7 different countries. If each team had an equal number of swimmers, how many swimmers were on each team?

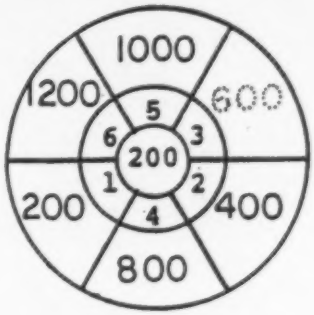
There were 4 swimmers on each team.

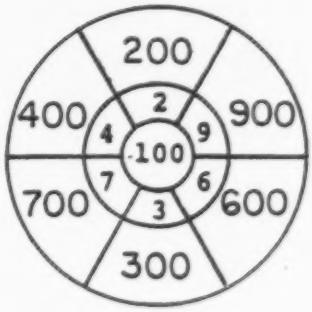
P.O.3.04.10.01 & .03

NAME:_____ CLASS:_____ DATE:_____

Complete each example and problem below.

① Multiply the number in the center of each wheel by the numbers around them.





② 20 x 3 = 60 200 x 3 = 600

4 x 10 = 40

1 x 40 = 40

2 x 30 = 60

4 x 100 = 400

1 x 400 = 400

2 x 300 = 600

40 x 2 = 80 400 x 2 = 800

③ Joan earns 300 dollars a week. If she works for 3 weeks, how much money will she earn?

She will earn 900 dollars.

④ Theater tickets for senior citizens cost 2 dollars each. If 400 senior citizens go to the movies, how much money will the theater take in?

The theater will take in 800 dollars.

⑤ Each carton of math books contains 100 books. If the school receives 9 cartons, how many books will it receive?

The school will receive 900 books.

⑥ Two jars of vitamins each contain 200 vitamins. If Sally takes 1 vitamin a day, for how many days will the two jars last?

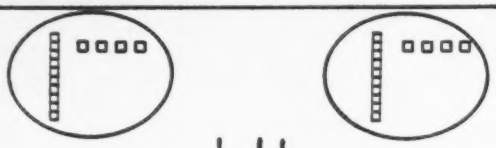
The two jars will last 400 days.

P.O. 3.04.10.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

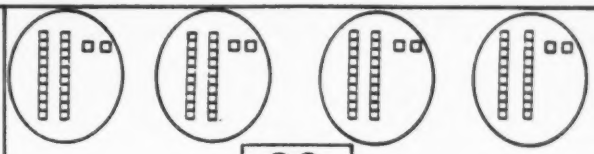
Write and solve the multiplication example represented by each group of squared material.



14

x 2

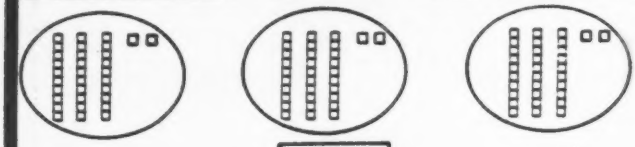
28



22

x 4

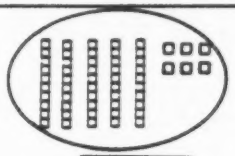
88



32

x 3

96



56

x 1

56

Find the product for each example. Then write the example horizontally.

42

x 2

84

2 x 42 = 84

33

x 3

99

3 x 33 = 99

Complete this example in expanded notation.

243 = 2 hundreds + 4 tens + 3 ones = 200 + 40 + 3

x 2

486

x 2

4 hundreds + 8 tens + 6 ones

x 2

400 + 80 + 6

In Maria's school each staircase has 13 steps. Maria is on the first floor. She wants to go to her classroom on the fourth floor. How many steps must she walk?

Maria must walk 39 steps.

SHARPENING YOUR SKILLS

Units 56, 57, 58

Name: _____ **Class:** _____ **Date:** _____

Find the hidden products on the multiplication table. Then write the facts.

x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14		18	20
3	0	3	6	9		15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	
5	0	5	10	15	20	25	30		40	45	50
6	0	6		18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40		56	64		80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

1. is covering [12] 3X4 =12
2. is covering [16] .2X8=16
3. is covering [40] .4X10=40
4. is covering [12] .6X2=12
5. is covering [48] .8X6=48
6. is covering [72] .8X9=72
7. is covering [35] .5X7=35

8. Write all the possible arrangements for the set of numbers, { 9, 2, 4 }

9,4,2 4,2,9
2,9,4 4,9,2
2,4,9 9,2,4

Look for the patterns on the multiplication table.

x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

9. The horizontal loop shows _____ .

- ● counting by fives.
- (b) a row of odd numbers.
- (c) addition is commutative.

10. The vertical loop shows _____ .

- (d) a row of odd numbers.
- ● the multiples of six.
- (f) the sums of the vertical and horizontal addends.

11. The product of 3 x 300 is _____.

- (a) 90
- ● 900
- (b) 600
- (d) 6000

P.O. 3.05.06.01 & .03

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Find the quotients and check.

① **solve** $3\overline{)93}$ = 31 **check** 31 × 3 = 93	② $4\overline{)84}$ = 21 21 × 4 = 84	③ $2\overline{)26}$ = 13 13 × 2 = 26
④ $2\overline{)40}$ = 20 20 × 2 = 40	⑤ $2\overline{)46}$ = 23 23 × 2 = 46	⑥ $3\overline{)63}$ = 21 21 × 3 = 63
⑦ $8\overline{)80}$ = 10 10 × 8 = 80	⑧ $2\overline{)24}$ = 12 12 × 2 = 24	⑨ $3\overline{)33}$ = 11 11 × 3 = 33
⑩ $3\overline{)39}$ = 13 13 × 3 = 39	⑪ $7\overline{)77}$ = 11 11 × 7 = 77	⑫ $2\overline{)48}$ = 24 24 × 2 = 48

Solve the problems.

44 pennies
2 students
How many pennies for each student?

22 pennies **solve**

55 pennies
How many nickels?

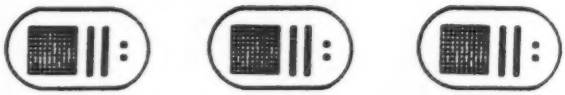
11 nickels **solve**

P.O. 3.05.06.02-.03

NAME:_____ CLASS:_____ DATE:_____

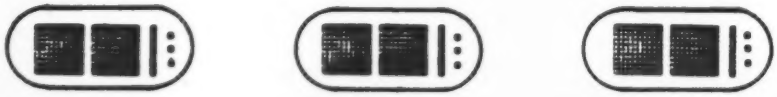
Follow the directions below.

Look at each group of squared material. Write, solve, and check division examples based upon the groupings of the squared material.



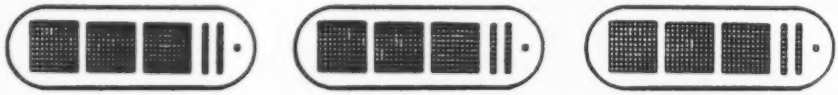
solve: $3\overline{)366}$ → 122

check: $122 \times 3 = 366$



solve: $3\overline{)639}$ → 213

check: $213 \times 3 = 639$



solve: $3\overline{)963}$ → 321

check: $321 \times 3 = 963$

Solve and check.

$2\overline{)242}$ → 121 ; $121 \times 2 = 242$	$3\overline{)630}$ → 210 ; $210 \times 3 = 630$	$5\overline{)555}$ → 111 ; $111 \times 5 = 555$
$6\overline{)666}$ → 111 ; $111 \times 6 = 666$	$4\overline{)844}$ → 211 ; $211 \times 4 = 844$	$2\overline{)862}$ → 431 ; $431 \times 2 = 862$

Solve the problem.

226 cars were shipped from Japan to the United States. If 2 ships carried an equal number of cars, how many cars were on each ship?

solve

113 cars

P.O. 3.05.06.03

NAME: _____ CLASS: _____ DATE: _____

Read each problem. Cross out the sentence which has information which is not needed to solve the problem. Then solve the problem.

1. In the year 1214 Queen Laurette made a party to celebrate King Howard's birthday. She invited 480 people. She used 4 dining rooms. If an equal number of people ate dinner in each room, how many people were in each room? **solve**

120 people

2. 3 people, who wore black and white costumes, shared 63 black and white balloons equally. When the party was over, they gave 25 white balloons to the children. How many balloons did each person, in a black and white costume, receive? **solve**

21 balloons

3. At exactly 12 o'clock the guests gathered in the great hall to dance. 246 guests were divided into groups of 2. How many groups of 2 were there? **solve**

123 groups

4. As the clock struck 2:00 A.M., 212 guests went home. 268 guests stayed for breakfast. These guests shared 2 dining rooms equally. How many guests ate breakfast in each dining room? **solve**

134 guests

Do you remember?

Circle the numbers which belong in the solution set for the inequality. Then write the solution set.

$\square \times 4 < 24$

(0), (1), (2), (3), (4), (5), 6, 7, 8, 9

solution set = {0, 1, 2, 3, 4, 5}

P.O. 3.02.06.01,.02 & .06

NAME: _____ CLASS: _____ DATE: _____

Complete the examples and solve the problems below.

Add. Check your work on a separate sheet of paper.

① 2,035 +1,264 = 3,299	② 5,167 +3,332 = 8,499	③ 4,680 +4,226 = 8,906	④ 5,053 +4,636 = 9,689
⑤ 3,456 +1,623 = 5,079	⑥ 2,824 +5,090 = 7,914	⑦ 1,187 +6,219 = 7,406	⑧ 4,635 +4,852 = 9,487

⑨ In the forest behind Bill's house, the third grade students collected 1,062 pine cones 1 week and 1,425 pine cones the second week. How many pine cones did they collect in all?	**solve** 2,487 pine cones
⑩ Squirrels collect acorns and store them for food in the winter. One squirrel family collected 3,226 acorns. Another squirrel family collected 4,913 acorns. What was the total number of acorns they collected?	**solve** 8,139 acorns
⑪ This forest is very large. It has 3,526 pine trees and 2,292 oak trees. How many oak trees and pine trees are there in the forest?	**solve** 5,818 trees
⑫ During 2 years many pine trees were cut down to be used as Christmas trees. 1,280 trees were cut down the first year. 1,495 trees were cut cut down the second year. How many trees were cut down during both years?	**solve** 2,775 trees

P.O. 3.02.06.02-.04 & .06

NAME:_____ CLASS:_____ DATE:_____

Use the chart to answer the questions below.

Sam's Trip Around the World		
From	To	Distance in Miles
New York	London	3,459
London	Istanbul	1,551
Istanbul	Moscow	1,088
Moscow	Bombay	3,131
Bombay	Singapore	2,429
Singapore	Tokyo	3,304
Tokyo	San Francisco	5,031
San Francisco	New York	2,571

1. How many miles did Sam travel to go from New York to Istanbul?

solve check

Sam traveled 5,010 miles.

2. How many miles did Sam fly from London to Bombay?

solve check

Sam flew 5,770 miles.

3. How far did Sam fly in traveling from Tokyo to New York?

solve check

Sam flew 7,602 miles.

4. The distance from Moscow to Tokyo is 8,864 miles. If Sam travels from Istanbul to Tokyo, how far will he travel?

solve check

Sam will travel 9,952 miles.

CHALLENGE!

What is the total distance of Sam's trip around the world?

22,564 miles.

P.O. 3.02.06.05-.06

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Rewrite each example in vertical format, solve, and check.

29 + 236 + 1,445 + 89 = ☐ 29 236 1,445 + 89 1,799	4,426 + 319 + 203 +60 = ☐ 4,426 319 203 + 60 5,008
5,828 + 3,113 + 47 + 614 = ☐ 5,828 3,113 47 + 614 9,602	217 + 163 + 880 + 1,234 = ☐ 217 163 880 +1,234 2,494
209 + 6 + 813 + 4,025 = ☐ 209 6 813 +4,025 5,053	16 + 88 + 1,437 + 2,194 = ☐ 16 88 1,437 +2,194 3,735

Solve the problem. solve

On the 2nd floor in 1 building in New York City there are 4 apartments. Mr. Williams has 2,006 books in his apartment. Mrs. Brown has 275 books in her apartment. The Smith family has 1,432 books. Jan and Mike Carlton have 85 books. How many books are there on the 2nd floor of this New York City building?

3,798 books

SHARPENING YOUR SKILLS

Units 59,60

Name: _____ **Class:** _____ **Date:** _____

Fill in the circle next to each correct answer for questions 1-4.

1.
$$\begin{array}{r} 2{,}643 \\ +3{,}780 \\ \hline \end{array}$$

(a) 1,143 ● 6,423

(b) 6,433 (d) 5,423

2. 62 + 108 + 4,632 + 40 = ☐

(e) 4,732 (g) 4,742

(f) 471,312 ● 4,842

3. $3\overline{)669}$

(a) 323 ● 223

(b) 233 (d) 322

4. $2\overline{)86}$

● 43 (g) 403

(f) 34 (h) Not Here

5. There was a 4-day show at the Museum of Modern Art. The attendance on Sunday was 1,362 people, on Monday, 2,160 people, on Tuesday, 945 people, and on Thursday, 1,607 people. The museum is closed on Wednesday. How many people saw the show during the 4 days?

solve

6,074 people

6. 3 schools sent a total of 696 students to see the show. If each school sent an equal number of students, how many students were there from each school?

solve

232 students

Cross out the information that is not needed to solve the problem.

7. ~~During the 4 days~~ 484 people were at lunch ~~in the museum cafeteria between 12 and 1 o'clock.~~ If 4 people were seated at each table, how many tables were used?

P.O. 3.03.06.01-.03

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Complete each example and check. Circle the examples which required regrouping.

4,853 − 2,636 = 2,217 check: 2,217 + 2,636 = 4,853	6,528 − 3,164 = 3,364 check: 3,364 + 3,164 = 6528
9,249 − 4,025 = 5,224 check: 5,224 + 4,025 = 9,249	8,662 − 5,435 = 3,227 check: 3,227 + 5,435 = 8,662
7,168 − 2,840 = 4,328 check: 4,328 + 2,840 = 7,168	4,559 − 2,326 = 2,233 check: 2,233 + 2,326 = 4,559

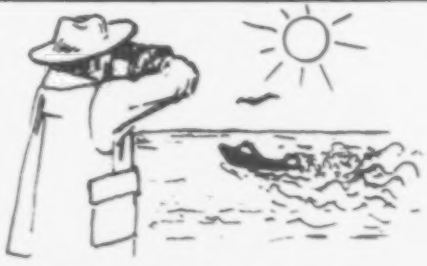
Solve the problems.

7. Captain Joe caught 5,293 flounders and 7,618 bluefish during the month of July. How many more bluefish did he catch?

solve

He caught 2,325 more bluefish than flounders.

8. In 1985 Captain Joe counted 6,085 speedboats in Jamaica Bay. In 1986 he counted 3,024 speedboats. What is the difference in the number of speedboats he counted?



solve

The difference in the number of speedboats is 3,061.

P.O. 3.03.06.01-.04

NAME:_____ CLASS:_____ DATE:_____

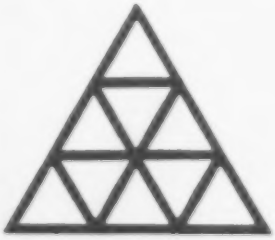
Follow the directions below.

Complete each example and check. Circle the examples which do not need regrouping.

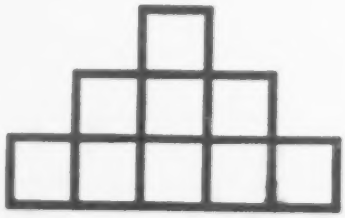
1. $\begin{array}{r} 6,842 \\ -2,606 \\ \hline 4,236 \end{array}$ check $\begin{array}{r} 4,236 \\ +2,606 \\ \hline 6,842 \end{array}$	2. $\begin{array}{r} 9,413 \\ -6,265 \\ \hline 3,148 \end{array}$ check $\begin{array}{r} 3,148 \\ +6,265 \\ \hline 9,413 \end{array}$
3. $\begin{array}{r} 3,466 \\ -2,145 \\ \hline 1,321 \end{array}$ check $\begin{array}{r} 1,321 \\ +2,145 \\ \hline 3,466 \end{array}$	4. $\begin{array}{r} 5,382 \\ -2,946 \\ \hline 2,436 \end{array}$ check $\begin{array}{r} 2,436 \\ +2,946 \\ \hline 5,382 \end{array}$
5. $\begin{array}{r} 5,078 \\ -3,021 \\ \hline 2,057 \end{array}$ check $\begin{array}{r} 2,057 \\ +3,021 \\ \hline 5,078 \end{array}$	6. $\begin{array}{r} 4,218 \\ -2,652 \\ \hline 1,566 \end{array}$ check $\begin{array}{r} 1,566 \\ +2,652 \\ \hline 4,218 \end{array}$
7. $\begin{array}{r} 8,272 \\ -5,585 \\ \hline 2,687 \end{array}$ check $\begin{array}{r} 2,687 \\ +5,585 \\ \hline 8,272 \end{array}$	8. $\begin{array}{r} 2,521 \\ -1,634 \\ \hline 887 \end{array}$ check $\begin{array}{r} 887 \\ +1,634 \\ \hline 2,521 \end{array}$

CHALLENGE!

How many triangles do you see?
I see 13 triangles.



How many squares do you see?
I see 11 squares.



P.O. 3.03.06.04-.06

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve each example. Check your answer on a separate sheet. Write the letter of each example above the answer to complete the message.

8,427 − 5,678 = 2,749 E	4,000 − 2,356 = 1,644 M	8,000 − 6,584 = 1,416 H	3,621 − 1,853 = 1,768 I
3,562 − 1,899 = 1,663 A	7,435 − 5,698 = 1,737 S	4,424 − 2,686 = 1,738 U	9,000 − 6,536 = 2,464 N
	5,000 − 2,987 = 2,013 G	7,462 − 2,689 = 4,773 T	

M	A	T	H		
1,644	1,663	4,773	1,416		
G	E	N	I	U	S
2,013	2,749	2,464	1,768	1,738	1,737

Use the information below to write a question for a subtraction problem. Solve the problem.

Sam has 6,000 stamps in his album.
Ted has 3,845 stamps in his album.

Question: How many more stamps does Sam have in his album than Ted?

solve

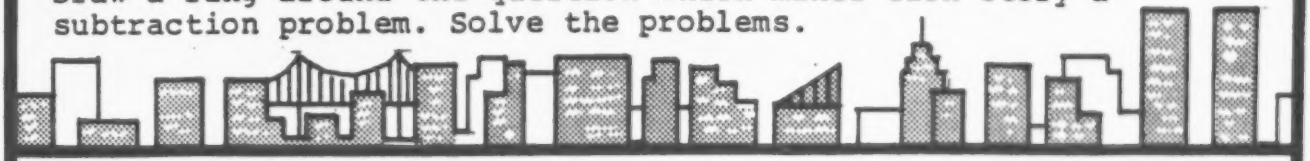
$$\begin{array}{r} 6{,}000 \\ -\,3{,}845 \\ \hline 2{,}155 \end{array}$$

P.O. 3.03.06.06

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Draw a ring around the question which makes each story a subtraction problem. Solve the problems.



1. 6,000 people visited the United Nations during December. 4,285 people visited the United Nations during January.

   A. How many people visited the United Nations during December and January?

   B. How many more people visited the United Nations in December than in January?

solve

6,000
−4,285
1,715

1,715 more people visited the United Nations in December than in January.

2. A building on Fifth Avenue in Manhattan has 2,344 offices. Around the corner, on the Avenue of the Americas, there is a building with 4,122 offices.

   A. What is the difference in the number of offices in the two buildings?

   B. What is the total number of offices?

solve

4,122
−2,344
1,778

1,778 more offices in the building on the Avenue of the Americas.

3. When the circus performed in Madison Square Garden, 9,500 hot dogs were ordered. 7,885 hot dogs were sold.

   A. How many hot dogs were not sold?

   B. How many hot dogs were ordered and sold?

solve

9,500
−7,885
1,615

1,615 hot dogs were not sold.

P.O. 3.10.08.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete each sentence.

1. If the length of a table is 1 meter, it is 10 decimeters long.
2. The distance from Main St. and Elm St. to Broadway and Elm St. is 1,000 meters or one kilometer.
3. A dime is about the thickness of one-tenth of a centimeter or 1 millimeter.
4. A meter equals 100 centimeters.

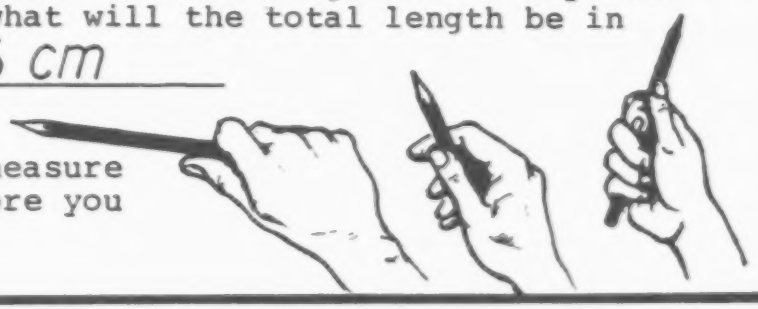
Choose the most reasonable measurement.

5.	width of a greenbean	a. 1 mm	b. (1 cm)	c. 1 m
6.	width of a student's desk	a. 1 km	b. 1 cm	c. (1 m)
7.	height of a boy	a. 1 cm	b. (1 m)	c. 1 mm
8.	length of a pencil	a. 1 mm	b. (1 dm)	c. 1 km

Solve this problem.

Kathy's pencil is 16 cm long. Samantha's pencil is 100 mm long. Charlotte's pencil is 2 dm long. If we lay the pencils end to end, what will the total length be in centimeters? 46 cm

Hint: The units of measure must be the same before you can find the total.



CHALLENGE!

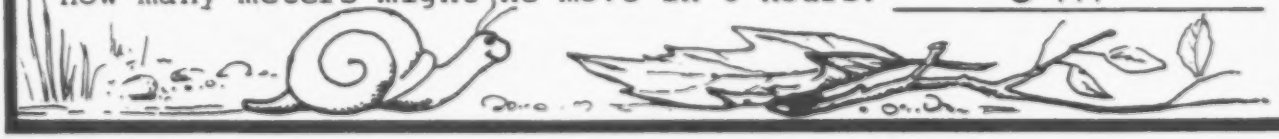
A snail moved 100 centimeters in 2 hours.

How many centimeters might he move in 3 hours? 150 cm

How many centimeters might he move in 4 hours? 200 cm

How many meters might he move in 4 hours? 2 m

How many meters might he move in 6 hours? 3 m



SHARPENING YOUR SKILLS

Units 61,62

Name:_____ Class:_____ Date:____

For questions 1-4, subtract and check.

1.

$$\begin{array}{r} 9{,}672 \\ -2{,}361 \\ \hline 7{,}311 \end{array}$$

check

$$\begin{array}{r} 7{,}311 \\ +2{,}361 \\ \hline 9{,}672 \end{array}$$

2.

$$\begin{array}{r} 8{,}763 \\ -1{,}248 \\ \hline 7{,}515 \end{array}$$

check

$$\begin{array}{r} 7{,}515 \\ +1{,}248 \\ \hline 8{,}763 \end{array}$$

3.

$$\begin{array}{r} 7{,}945 \\ -2{,}379 \\ \hline 5{,}566 \end{array}$$

check

$$\begin{array}{r} 5{,}566 \\ +2{,}379 \\ \hline 7{,}945 \end{array}$$

4.

$$\begin{array}{r} 5{,}000 \\ -2{,}471 \\ \hline 2{,}529 \end{array}$$

check

$$\begin{array}{r} 2{,}529 \\ +2{,}471 \\ \hline 5{,}000 \end{array}$$

5. Find the difference. Check.

6,437 - 1,204 = 5,233

$$\begin{array}{r} 5{,}233 \\ +1{,}204 \\ \hline 6{,}437 \end{array}$$

6. Choose the correct answer.

$$\begin{array}{r} 8{,}723 \\ -2{,}586 \end{array}$$

(a) 11,309 (c) 6,237

(b) 6,263 ● 6,137

7. Choose the correct answer.

$$\begin{array}{r} 8{,}345 \\ -2{,}897 \end{array}$$

(e) 6,552 ● 5,448

(f) 6,448 (h) Not Here

8. Last month the Hamburger Palace sold 6,687 hamburgers. This month the Palace sold 8,341 hamburgers. How many more hamburgers did they sell this month than last month?

They sold 1,654 more hamburgers this month.

For questions 9 - 11, circle the correct answer in each sentence.

9. A millimeter is (greater, (less) than a centimeter.

10. A millimeter is (one-tenth), one-half) of a ~~centimeter~~.

11. An abbreviation for millimeter is (m, (mm), cm).

12. One meter equals 100 centimeters.

A meter equals 1,000 millimeters.

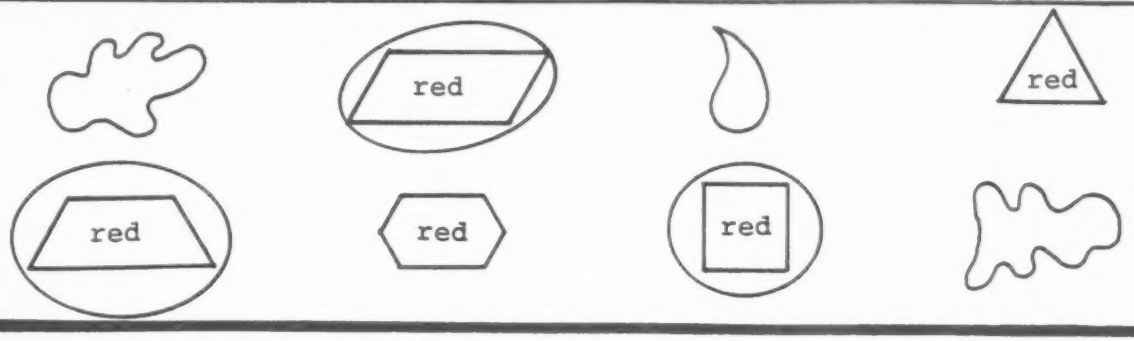
A kilometer equals 1000 meters.

P.O. 3.09.06.01 - .03

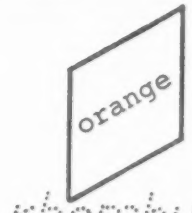
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

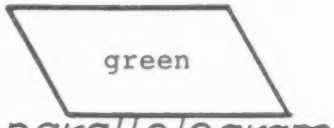
1. Here is a group of simple closed curves.
   Color the polygons red.
   Draw a blue circle around the quadrilaterals.



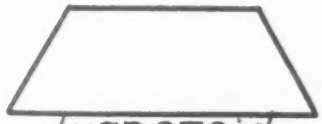
2. Name each quadrilateral.
   Color the square red.
   Color the rectangle yellow.
   Color the trapezoid blue.
   Color the rhombus orange.
   Color the parallelogram green.



rhombus

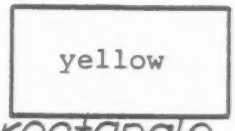


parallelogram



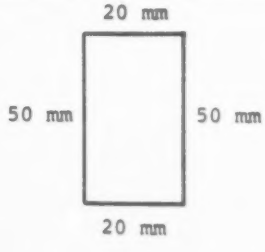
trapezoid

square

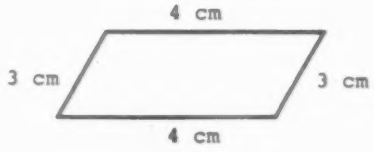


rectangle

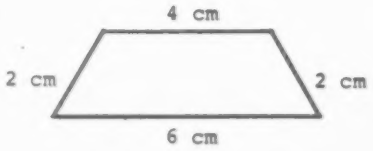
3. Find the perimeter for each quadrilateral.



P = 140mm



P = 14 cm



P = 14 cm

P.O. 3.13.04.01-.02

NAME:_____ CLASS:_____ DATE:_____

Answer the questions below.

This is Sam's money.

This is Sandra's money.

1. Who has more coins? Sandra has more coins.
2. Who's money has less value? Sandra's money has less value.
3. What is the difference in the amount of money that Sam and Sandra have? The difference is 6¢.
4. What is the value of the money that Sam and Sandra have together? Sam and Sandra have $1.68 together.
5. What is the value of Sam's and Sandra's dimes? The dimes are worth 70¢ cents.

Sandra paid 45¢ for a Granny Smith apple. On the chart below, show some of the combinations of coins that Sandra could have used to pay for the apple. The first one is done for you. Answers will vary.

quarters	0					
dimes	4					
nickels	0					
pennies	5					
total	45¢					

P.O. 3.13.04.03

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

Games Won by Teams in the "A" League

	Hawks	Eagles	Bears	Panthers
December	4	6	6	7
January	4	2	6	9
February	8	5	5	3
Total	16	13	17	19

Use the chart to answer each question.

Question: Which team won the most games in February?

Answer: The Hawks won the most games in February.

Question: How many fewer games did the Eagles win than the Panthers in January?

Answer: The Eagles won 7 fewer games than the Panthers in January.

Question: What was the total number of games played in December?

Answer: 23 games were played in December.

Use the chart above to make up your own questions and answers.

Question: Answers will vary.

Answer: _____

Question: _____

Answer: _____

Question: _____

Answer: _____

SHARPENING YOUR SKILLS

Units 63,64

Name:_____ Class:_____ Date:____

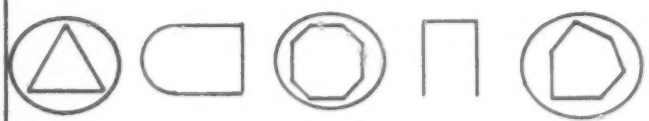
1. Use words from the box to complete each sentence.

curved	edge	solid
plane	corner	straight

A polygon is a plane figure.

Each pair of sides in a polygon meets at a corner .

2. Circle the figures below which are polygons.

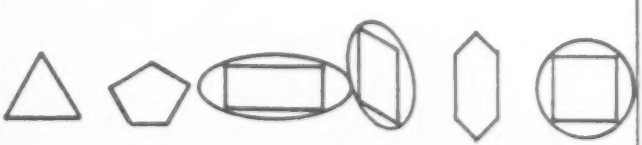


3. Use the words in the box to complete the sentence.

five	polygon	vertices
solid	pentagon	four

A quadrilateral is a polygon with four sides and four vertices .

4. Circle the quadrilaterals.



5. The perimeter of a quadrilateral is _____.

(a) the difference between its length and width.

● the sum of the lengths of its sides.

(c) The line which divides it into equal parts.

6. Ken is making a triangle of buttons. The first row has 1 button. The second row has 2 buttons. The third row has 3 buttons. If he continues this way, how many buttons will there be in the 6th row?

There will be 6 buttons in the 6th row.

7. Which question below cannot be answered from the information shown on the chart?

Team	Games Won	Games Lost	Games Played
Mets	60	15	75
Cardinals	56	21	77
Pirates	55	20	75
Astros	52	25	77

(d) How many games did the Mets play?

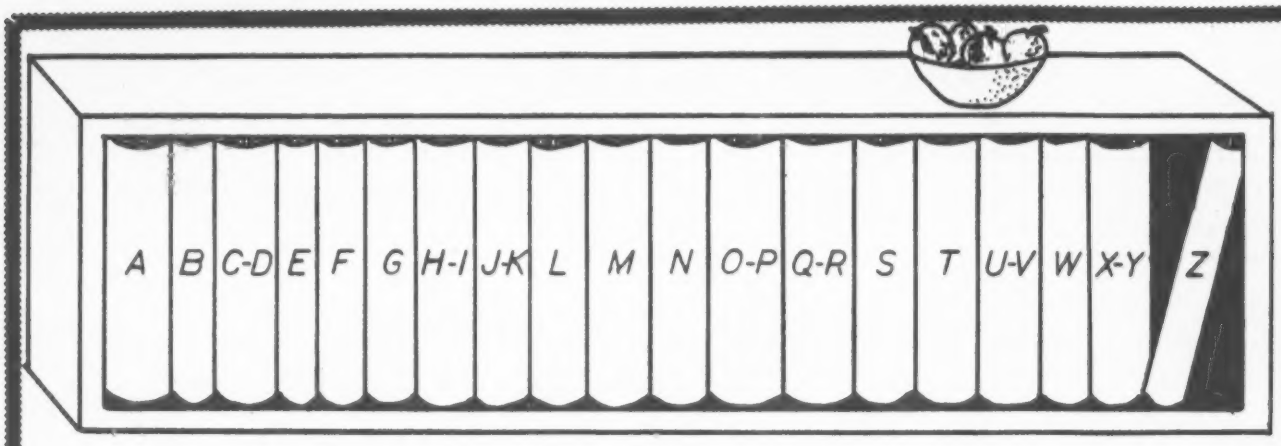
(e) How many more games did the Cardinals win than the Pirates?

● How many times did the Pirates play the Mets?

P.O. 3.01.07.01

NAME:_____ CLASS:_____ DATE:_____

Use the encyclopedia to practice using ordinal numbers.



1. The letters on the thirteenth volume from the left are Q - R.

2. The letters on the seventeenth volume from the right are C - D.

3. The letters on the second, fourth, ninth and fifteenth volumes spell BELT.

4. The letters on the tenth and twelfth volumes spell MOP.

5. The volumes which each have two letters are the third, seventh, eighth, twelfth, thirteenth, sixteenth and eighteenth volumes.

6. The nineteenth volume from the left has letter Z on it.

7. The nineteenth volume from the right has letter A on it.

8. You can probably read about President Ronald Reagan in the twelfth and thirteenth volumes from the left.

P.O. 3.01.07.02 - .03

NAME: _____ CLASS: _____ DATE: _____

Complete the sentences below. Write the matching ordinal number in the column on the right.

1.	The second object from the left is a house.	2nd
2.	The seventh object from the right is a book.	7th
3.	The eighth object from the right is a candle.	8th
4.	The tenth object from the left is a moon.	10th
5.	The twelfth object from the right is a happy face.	12th
6.	The fifth object from the right is a box(cube).	5th
7.	The eighteenth object from the left is a box.	18th
8.	The tree is the seventeenth object from the right.	17th
9.	The candle is the fifteenth object from the left.	15th
10.	The sun is the twenty-second object from the left.	22nd

Do you remember?

Farmer Smith has 3 apple orchards. Each orchard has 231 apple trees. How many trees are in Farmer Smith's orchards?

693 trees

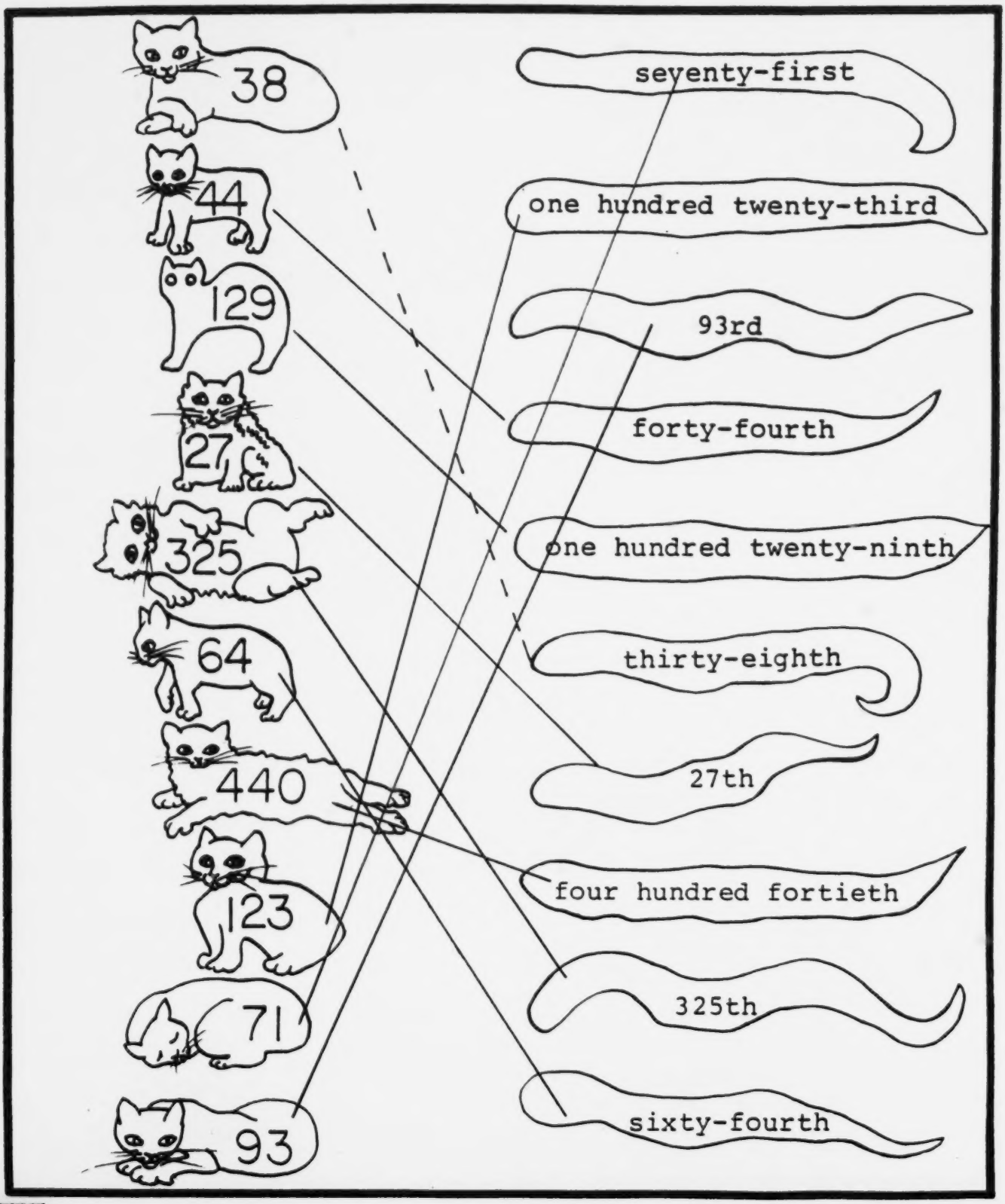
solve

$$\begin{array}{r} 231 \\ \times \quad 3 \\ \hline 693 \end{array}$$

P.O. 3.01.07.03

NAME: _____ CLASS: _____ DATE: _____

Connect each cat to its tail by drawing a line from each cardinal number to its matching ordinal number.



P.O. 3.14.03.02

NAME:_____ CLASS:_____ DATE:_____

Answer the questions below.

1 cup

1 pint

1 quart

1. Which container holds exactly 2 cups?

(pint) quart

2. Which container holds less than a pint?

(cup) quart

3. Which container holds more than a pint?

cup (quart)

4. Which container holds 2 pints?

cup (quart)

5. Which container holds 4 cups?

pint (quart)

Solve the problem:

Jamie drank 1 cup of juice.
Bob drank 1 pint of juice.
Sarah drank 2 cups of juice.
Carla drank 3 cups of juice.

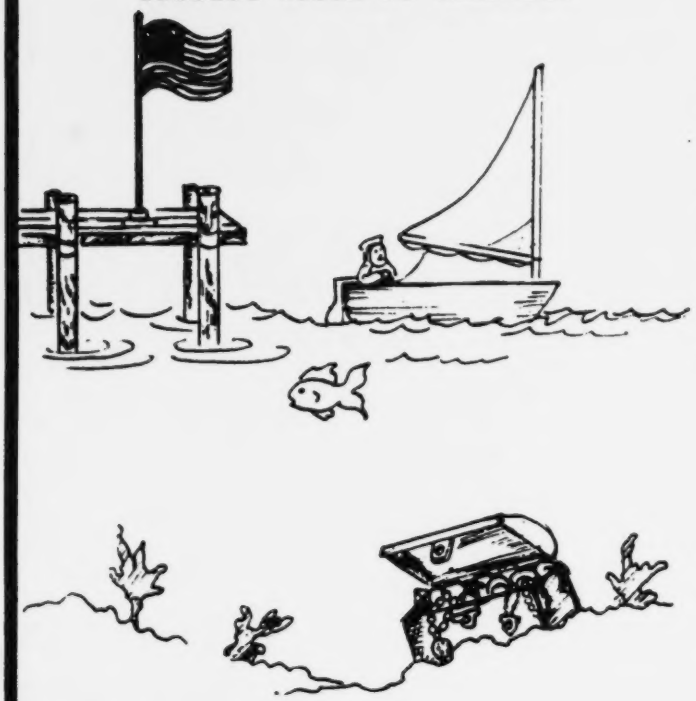
Together they drank 8 cups or 4 pints or 2 quarts.

P.O. 3.01.08.01

NAME:_____ CLASS:_____ DATE:_____

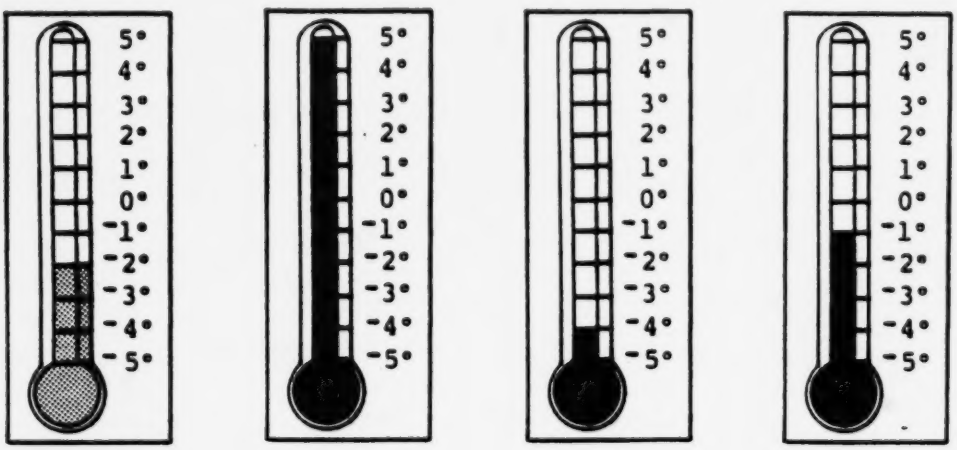
Follow the directions below.

Look at the picture. Complete the sentences by circling the correct words or numbers.



1. The sailboat is (at, above, below) sea-level.
2. The flag is flying (above, below) sea-level.
3. A(n) (odd, even, negative) number would best describe the fish 2 feet below sea-level.
4. The sunken chest is 10 feet below sea-level. Therefore, it is (0, 10, -10).

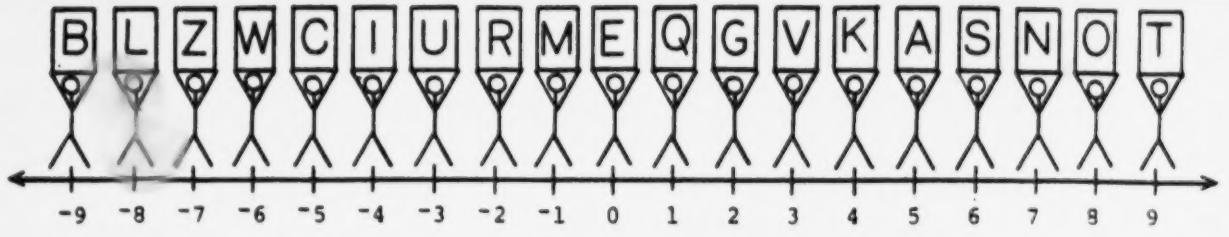
Read the temperature below each thermometer. Color in each thermometer to show the temperature. The first one is done for you.



P.O. 3.01.08.02

NAME: _____ CLASS: _____ DATE: _____

Solve the word puzzle by placing the students' letter cards in the correct boxes below.

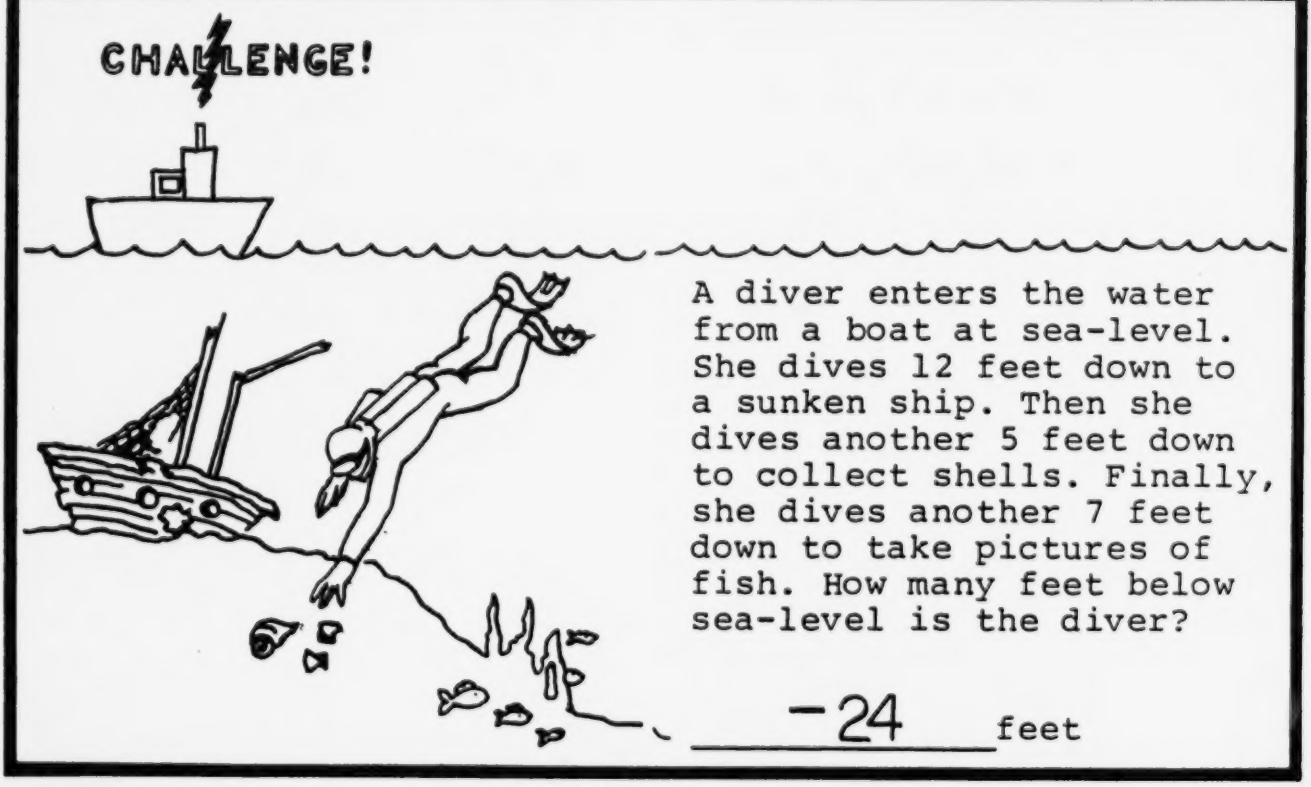


Word Puzzle

W	E		A	R	E		L	E	A	R	N	I	N	G
-6	0		5	-2	0		-8	0	5	-2	7	-4	7	2

A	B	O	U	T
5	-9	8	-3	9

N	E	G	A	T	I	V	E		N	U	M	B	E	R	S
7	0	2	5	9	-4	3	0		7	-3	-1	-9	0	-2	6



A diver enters the water from a boat at sea-level. She dives 12 feet down to a sunken ship. Then she dives another 5 feet down to collect shells. Finally, she dives another 7 feet down to take pictures of fish. How many feet below sea-level is the diver?

-24 feet

SHARPENING YOUR SKILLS

Units 65,66,67

Name:_____ **Class:**_____ **Date:**____

① Help Forgetful Freddie remember. Fill in the blanks.

1 pint = 2 cups 2 pints = 1 quart 4 cups = 2 pints

4 cups = 1 quart 8 cups = 2 quarts 1 quart = 2 pints

② Which ▲ is circled?

▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲ (▲) ▲▲

(a) first (c) twentieth

● eighteenth (d) seventeenth

③ Write the ordinal number for each cardinal number below.

12 twelfth 12th

4 fourth 4th

73 seventy - third 73rd

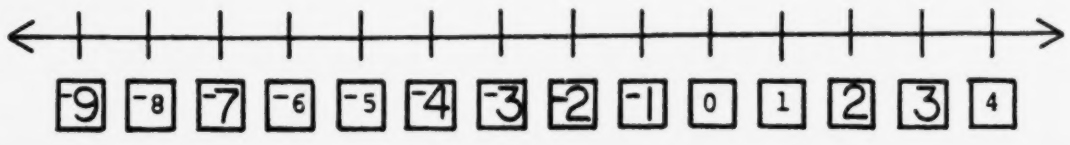
45 forty - fifth 45th

④ How many pints equal 2 quarts?

(e) 1 ● 4

(f) 2 (h) 8

⑤ Complete the number line.



⑥ Write the numbers which represent the following:

(a) seven degrees below zero -7°

(b) three floors below ground level -3

(c) five floors above ground level 5

(d) the number to the left of -2 on the number line -3

⑦ Write the ordinal numbers which come before and after each number below.

41st 42nd 43rd

124th 125th 126th

350th 351st 352nd

P.O. 3.01.09.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

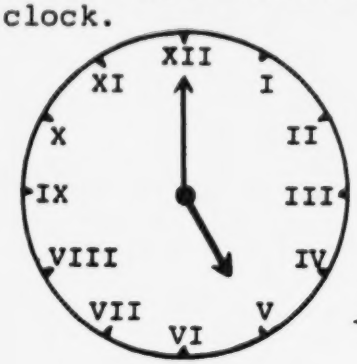
Change each Arabic numeral to a Roman numeral.

27 = XXVII	6 = VI	25 = XXV
39 = XXXIX	32 = XXXII	16 = XVI
18 = XVIII	20 = XX	11 = XI
12 = XII	36 = XXXVI	8 = VIII

Change each Roman numeral to an Arabic numeral.

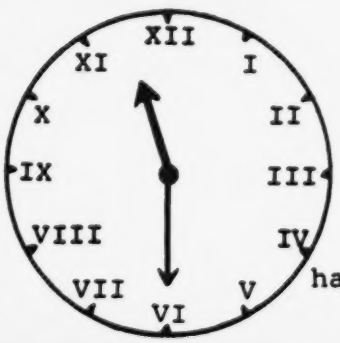
VII = 7	XXXIII = 33	III = 3
XVII = 17	XV = 15	VIII = 8
XXVII = 27	XXXV = 35	XIV = 14
XXXVII = 37	XXII = 22	XIX = 19

Write the time shown on each clock.



5:00

5 o'clock



11:30

half - past 11

What chapter is each student reading?

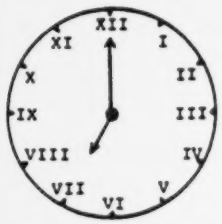
Billy is reading chapter 31.

Mary is reading chapter 27.

P.O. 3.01.09.02

NAME:_____ CLASS:_____ DATE:_____

Solve the problems below. Write the answers in Arabic numerals.

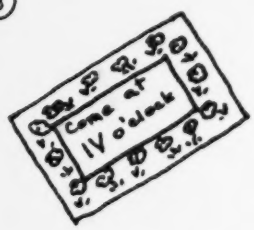
① 

This clock shows the time that Sarah began her homework. She will spend a total of 2 hours on her homework. What time will Sarah finish her homework?

9 o'clock

②

Jessie is reading chapter XXXV of her book.
What chapter came before this one?
Chapter 34 came before this one.
What is the number of the next one?
The next chapter is chapter 36.

③ 

Jenny sent a message to some of her friends. It said: Come to my house at IV o'clock. I have invited XXXVI boys and girls.
At what time should they meet?
They should meet at 4 o'clock.
How many children will be there?
There will be 36 boys and girls.

④

A long time ago, in the year, XXXVIII, a man fell off a camel, the camel ran away, and the man walked XIV miles in the desert before finding water.
In what year did he fall off the camel?
He fell off the camel in the year, 38.
How many miles did he walk?
He walked 14 miles.

Do you remember?

Each number is 1,802 less than the number before it.
Find the missing numbers.

solve **check**

8,212, 6,410, 4,608,

2,806, 1,004

P.O. 3.10.09.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

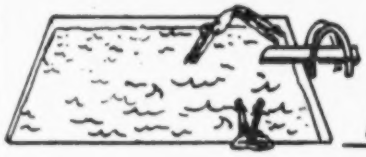
For each sentence below, fill in the blanks.

1 liter = 10 deciliters. 1 liter = 100 centiliters.

1 kiloliter = 1,000 liters. 1 liter = 1,000 milliliters.

Write the name of the unit you would use to measure the capacity of each item below: milliliter, centiliter, liter, or kiloliter.

milliliter



kiloliter

liter

liter

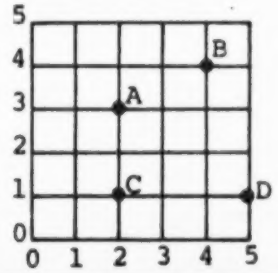
centiliter

liter

liter

liter

Do you remember?



Ordered Pairs

Point A is at (2 , 3).

Point B is at (4 , 4).

Point C is at (2 , 1).

Point D is at (5 , 1).

P.O. 3.04.11.01&.03

NAME: _____ CLASS: _____ DATE: _____

Complete the examples and solve the problems below.
Use the partial product method.

① 643 x 7

21 (7 x 3)
280 (7 x 40)
+ 4200 (7 x 600)
4,501

② 298 x 4

32 (4 x 8)
360 (4 x 90)
+ 800 (4 x 200)
1,192

③ 45 x 6

30 (6 x 5)
+ 240 (6 x 40)
270

④ 437 x 9

63 (9 x 7)
270 (9 x 30)
+ 3,600 (9 x 400)
3,933

⑤ 68 x 3

24 (3 x 8)
+ 180 (3 x 60)
204

⑥ 827 x 5

35 (5 x 7)
100 (5 x 20)
+ 4,000 (5 x 800)
4,135

⑦ The Madison Avenue Newsstand received a delivery of 7 different magazines. There were 144 copies of each magazine. How many magazines were delivered?

1,008 magazines were delivered.

⑧ The newsstand sells soft drinks in 5 different flavors. 225 cans of each flavor were delivered. How many cans were delivered?

1,125 cans were delivered.

Do you remember?

What fraction is represented by the shaded parts in each picture?

$\frac{5}{6}$

$\frac{1}{3}$

$\frac{3}{4}$

P.O. 3.04.11.02&.03

NAME:_____ CLASS:_____ DATE:_____

Complete the examples and solve the problems below.
Use the regrouping method.

① 1 1 668 x 2 1,336	② 63 x 9 567	③ 235 x 8 1,880
④ 368 x 6 2,208	⑤ 97 x 5 485	⑥ 184 x 7 1,288
⑦ 419 x 3 1,257	⑧ 537 x 6 3,222	⑨ 85 x 4 340

⑩ The newspaper delivery truck delivers to 87 newsstands. Each newsstand receives 5 bundles of newspapers. How many bundles of newspapers does the truck have before its first delivery?

The truck has 435 bundles of newspapers before its first delivery.

⑪ Each of the 87 newsstands has 2 workers who work from 6:00 A.M. to 2:00 P.M.. During these 8 hours, how many people work at 87 newsstands?

There are 174 workers in all.

P.O. 3.04.11.03

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below.

Anne and Stephen Cohen both had colds. Their colds lasted for several days.

① Anne and Stephen used 4 boxes of tissues. There were 250 tissues in each box. How many tissues did they use in all?

They used 1,000 tissues in all.

② Anne took 25 milliliters of medicine each day for 7 days. How much medicine did Anne take in all?

She took 175 milliliters of medicine.

③ Stephen needed a lot of sleep. During the 7 days of his illness he slept 12 hours each day. How many hours did he sleep in 7 days?

He slept 84 hours in 7 days.

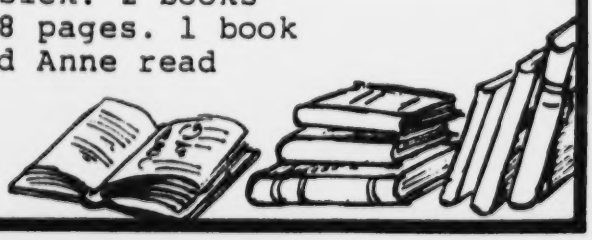
④ When they weren't sleeping, Anne and Stephen spent 45 minutes each day playing games. They did this for 5 days. For how many minutes during the 5 days did they play games?

They spent 225 minutes playing games.

CHALLENGE!

Anne read 4 books while she was sick. 2 books had 46 pages each. 1 book had 118 pages. 1 book had 167 pages. How many pages did Anne read in all?

Anne read 377 pages in all.



SHARPENING YOUR SKILLS

Units 68,69,70

Name:_____ Class:_____ Date:____

1. Write the Roman numeral next to the Arabic numeral.

13 XIII	20 XX	26 XXVI	32 XXXII
15 XV	19 XIX	24 XXIV	35 XXXV
16 XVI	23 XXIII	30 XXX	34 XXXIV
14 XIV	25 XXV	29 XXIX	39 XXXIX

2. Brenda is reading a book which has XXXIV chapters. She just finished reading chapter XIX. How many more chapters must she read to complete the book? 15 or XV

3. Circle the unit of measure that you would expect to find on each container.

liter (milliliter)

(liter) milliliter

liter (milliliter)

4. This is a one liter container. How many milliliters can it hold?

(a) 10 milliliters
(b) 100 milliliters
● 1,000 milliliters

5. A wading pool is filled with 1,000 liters of water. How many kiloliters of water is that?

● 1 kiloliter
(e) 10 kiloliters
(f) 1,000 kiloliters

6.

$$\begin{array}{r} 67 \\ \times\ 3 \\ \hline 21 \\ +180 \\ \hline 201 \end{array} \quad \begin{array}{l} (3 \times 7) \\ (3 \times 60) \end{array}$$

7.

$$\begin{array}{r} 463 \\ \times\ 8 \\ \hline 24 \\ 480 \\ +3200 \\ \hline 3{,}704 \end{array} \quad \begin{array}{l} (8 \times 3) \\ (8 \times 60) \\ (8 \times 400) \end{array}$$

8.

$$\begin{array}{r} 516 \\ \times\ 7 \\ \hline 42 \\ 70 \\ 3500 \\ \hline 3{,}612 \end{array} \quad \begin{array}{l} (7 \times 6) \\ (7 \times 10) \\ (7 \times 500) \end{array}$$

9. Our school received a delivery of 253 boxes of crayons. Each box has 8 crayons. How many crayons did we receive?

We received 2,024 crayons.

P.O. 3.05.07.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve and check each example.

① $8\overline{)78}$ = 9 r 6

check: 9 × 8 = 72; 72 + 6 = 78

② $6\overline{)57}$ = 9 r 3

check: 9 × 6 = 54; 54 + 3 = 57

③ $2\overline{)17}$ = 8 r 1

check: 8 × 2 = 16; 16 + 1 = 17

④ $5\overline{)29}$ = 5 r 4

check: 5 × 5 = 25; 25 + 4 = 29

Solve each problem.

⑤ 13 children went to the movies. Each ticket admitted 2 children. How many tickets were needed?

7 tickets were needed.

⑥ The theater sold gumballs in boxes of 40. If 6 children shared a box of gumballs, how many would each child get? How many would be left over?

Each child would get 6 gumballs.

4 would be left over.

⑦ There were 7 seats in each row. There were 59 people in the theater. How many rows could they fill? How many people would be in an unfilled row?

They could fill 8 rows.

There would be 3 people in an unfilled row.

⑧ The film was 85 minutes long. It contained cartoons, each 9 minutes long, except the last one. How many 9-minute cartoons were there? How long was the last cartoon?

There were 9 9-minute cartoons.

The last one was 4 minutes long.

SHARPENING YOUR SKILLS

Units 70,71

Name:_____ **Class:**_____ **Date:**_____

Multiply. Use either the partial product method or the short method. Choose the correct answer.

1. 67 x 4	2. 428 x 6	3. 169 x 3	4. 288 x 2
(a) 248	(e) 1,248	(a) 4,827	● 576
● 268	(f) 2,428	● 507	(f) 510
(c) 2,428	● 2,568	(c) 307	(g) 5,616
(d) Not Here	(h) Not Here	(d) Not Here	(h) Not Here

5. Mrs. Kay took 34 students to the beach. She asked each of them to collect at least 8 scallop shells. What is the least number of shells they collected?

They collected at least 272 shells.

6. Sally's picture of the beach won first prize. 18 classmates each gave her 3 scallop shells to decorate the picture frame. How many scallop shells did she use?

She used 54 scallop shells.

Divide.

7. $6\overline{)39}$ = 6R3
8. $7\overline{)65}$ = 9R2
9. $8\overline{)70}$ = 8R6
10. $5\overline{)43}$ = 8R3

11. 35 students from Mrs. Kay's class ate red snapper for lunch. Each snapper fed 4 people. How many snappers were needed?

9 snappers were needed.

12. 22 students collected starfish in buckets. 4 students shared each bucket. How many buckets were needed?

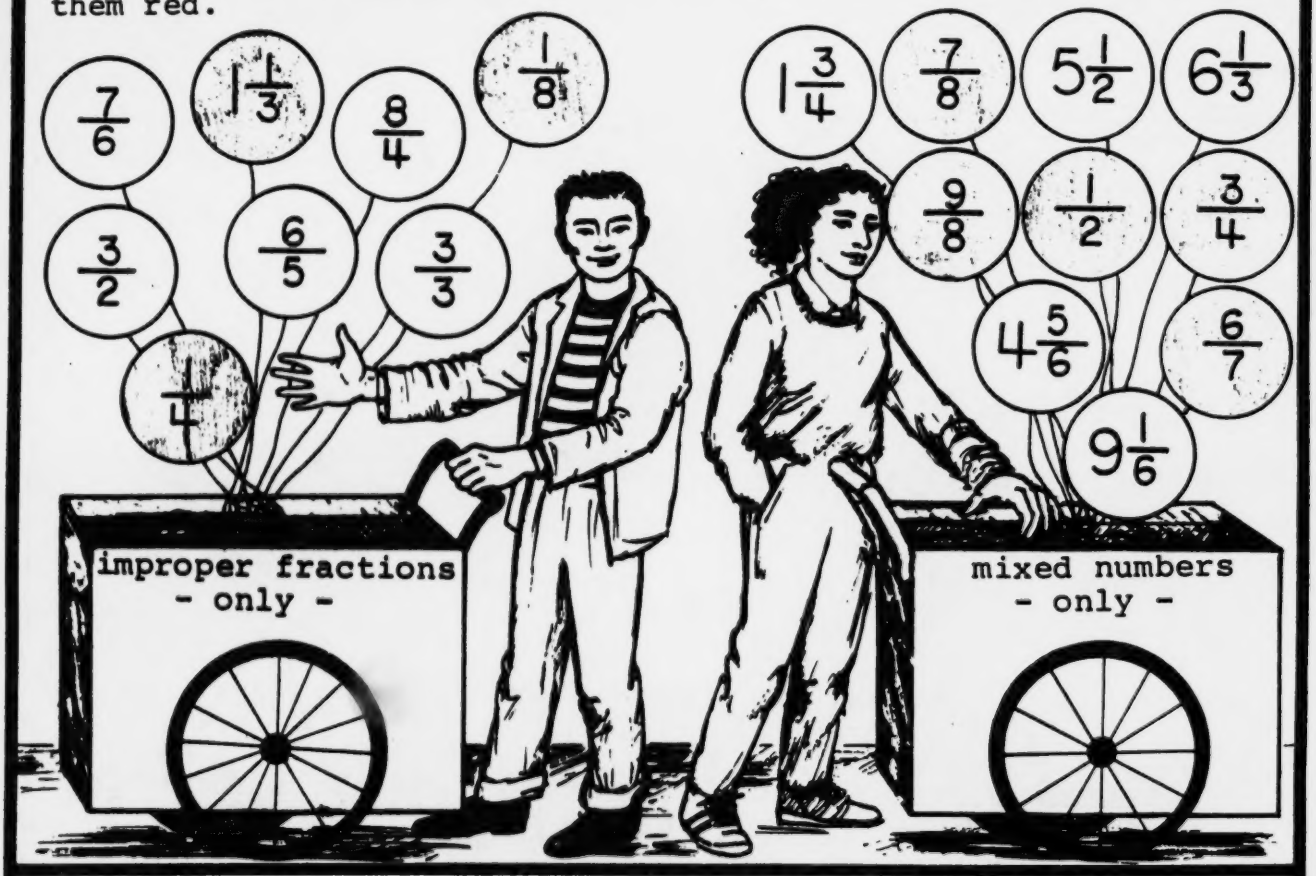
6 buckets were needed.

P.O. 3.06.04.01&.02

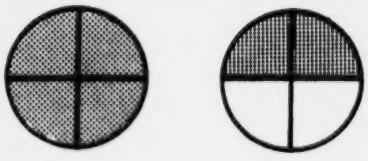
NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

"Pop" the balloons which do not belong in the wagons by coloring them red.

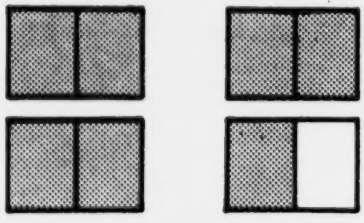


Write an improper fraction and a mixed number for each group.



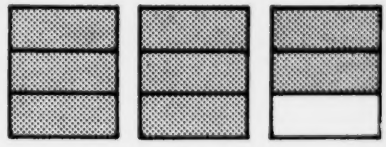
improper fraction $\frac{6}{4}$

mixed number $1\frac{2}{4}$



improper fraction $\frac{7}{2}$

mixed number $3\frac{1}{2}$



improper fraction $\frac{8}{3}$

mixed number $2\frac{2}{3}$

P.O. 3.06.04.01&.02

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

This Little League team got new team shirts. The numbers on their shirts are either improper fractions or mixed numbers.

Bob Nancy Cal Rubin Pam Sally Hank Felicia Sam Kurt Paul Judy

The names of the team members who have shirts with improper fractions are:

Bob,Cal, Rubin, Sally, Felicia, Sam.

The names of the team members who have shirts with mixed numbers are:

Nancy, Pam, Hank, Kurt, Paul

Use the words in the word box to complete the sentences.

greater	fraction	numerator
less	whole	denominator

The numerator of an improper fraction is greater than or equal to the denominator.

A mixed number has a whole number and a fraction.

The numerator of a proper fraction is less than the denominator.

Do you remember?

The circle is third from the right.

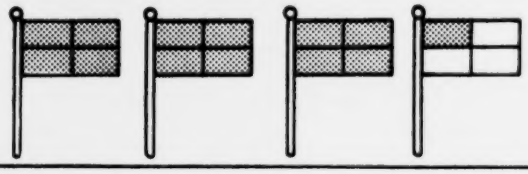
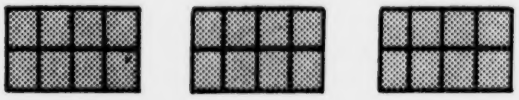
The parallelogram is second from the right.

The square is fourth from the left.

P.O. 3.06.04.03

NAME:_____ CLASS:_____ DATE:_____

Write the improper fraction represented by each drawing. Change the improper fraction to a mixed or a whole number.

	improper fraction	mixed or whole number
1.	$\frac{9}{2}$	$4\frac{1}{2}$
2. 	$\frac{13}{4}$	$3\frac{1}{4}$
3.	$\frac{9}{3}$	3
4.	$\frac{18}{5}$	$3\frac{3}{5}$
5.	$\frac{14}{6}$	$2\frac{2}{6}$
6. 	$\frac{24}{8}$	3

Do you remember? **solve** **check**

In the morning an ant traveled 2,070 mm. In the afternoon the ant slowed down and traveled 1,065 mm. How much farther did the ant travel in the morning?

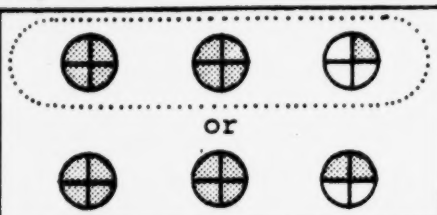
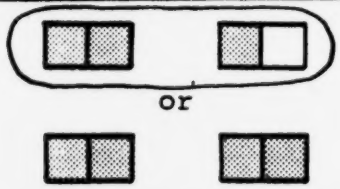
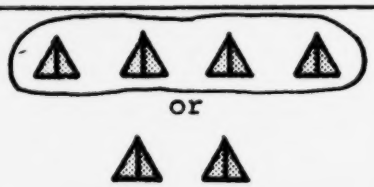
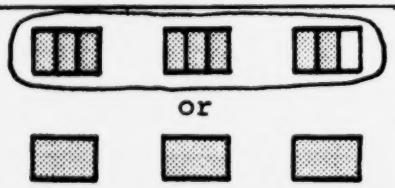
1,005 mm

P.O. 3.06.04.04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Circle the picture which illustrates each mixed number or whole number. Write an improper fraction for each circled picture.

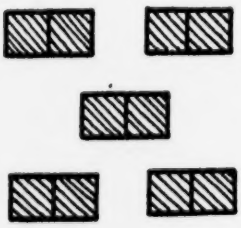
1. $2\frac{1}{4}$		improper fraction $\frac{9}{4}$
2. $1\frac{1}{2}$		$\frac{3}{2}$
3. 4		$\frac{8}{2}$
4. $2\frac{2}{3}$		$\frac{8}{3}$

Fill in all or part of each drawing to illustrate the mixed or whole number. Write the improper fraction for each.

(A) $2\frac{1}{3}$

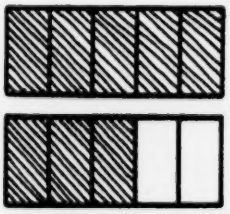
$2\frac{1}{3} = \frac{7}{3}$

(B) 5



$5 = \frac{10}{2}$

(C) $1\frac{3}{5}$



$1\frac{3}{5} = \frac{8}{5}$

P.O. 3.06.05.01.

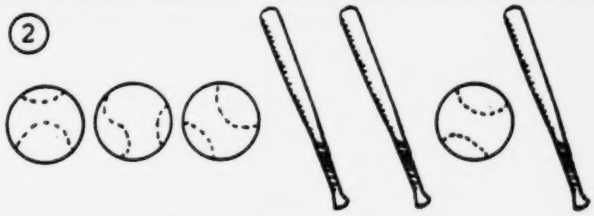
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write a ratio for each picture.

①

The ratio of stars to waves is 3 to 2.

② 

The ratio of bats to baseballs is 3 to 4.

③

The ratio of cups to saucers is 5 to 1.

④ 2 S M L 6 R B 3 D P

The ratio of letters to numbers is 7 to 3.

Write a fraction to name each ratio.

⑤ 7 Mets to 4 Yankees

The ratio of Mets to Yankees = $\frac{7}{4}$.

⑥ 9 dogs to 10 cats

The ratio of dogs to cats = $\frac{9}{10}$.

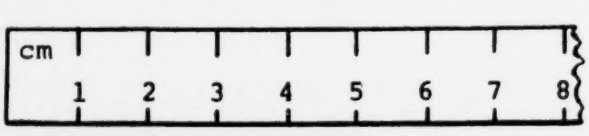
⑦ 4 chairs to 1 table

The ratio of chairs to tables = $\frac{4}{1}$

⑧ 8 wheels to 2 cars

The ratio of wheels to cars = $\frac{8}{2}$

Do you remember?



This ruler measures centimeters. How many millimeters long is Joe's pencil?

Joe's pencil is 60 mm long.

P.O. 3.06.05.02

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below.

① There were 30 children expected at the picnic. 24 of them attended. What is the ratio of children who attended to the number of children expected?

The ratio is 24 to 30.

② The ratio of boys to girls at the school picnic was $\frac{11}{13}$. How many children attended the picnic in all?

24 students attended the picnic.

③ It was a chilly day for a picnic. All the children wore sweaters. Eight wore red sweaters. Six wore white sweaters. What fraction shows the ratio of red sweaters to white sweaters?

8 to 6

④ Twenty-four students shared 6 containers of juice. What is the ratio of students to containers of juice?

24 to 6

How many students shared each container of juice?

4

CHALLENGE!

Attendance	Attendance	Attendance
Boys 14	Boys 6	Boys 10
Girls 11	Girls 13	Girls 10
Room 101	Room 102	Room 103

These charts show the attendance for each of three third-grade classes. What is the ratio of boys to girls who attended school in the third grade?

The ratio of boys to girls is 30 to 34.

Use the information on these charts to write your own story problems.

Answers will vary.

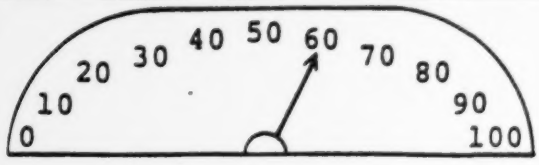
P.O. 3.10.10.01-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

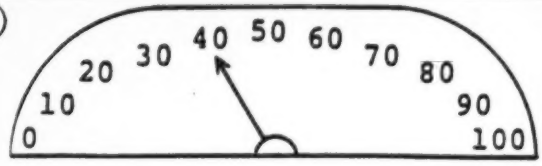
What is the rate of speed shown on each speedometer?

(A)



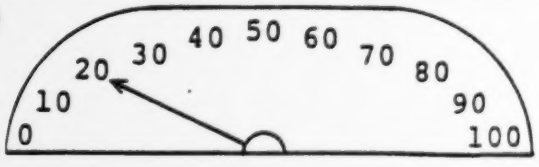
Rate = 60mph

(B)



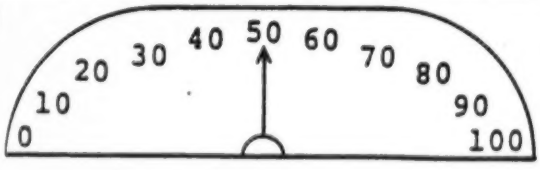
Rate = 40 mph

(C)



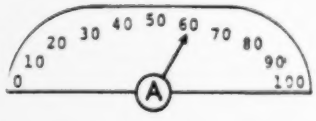
Rate = 20 mph

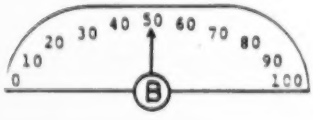
(D)

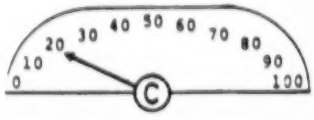


Rate = 50 mph

Look at the speed limit sign. Answer the questions.







Which car is traveling faster than the speed limit? A

Which car is traveling slower than the speed limit? C

Which car is traveling 50 miles per hour? B

Complete the table.

Bus Number	Leaves	Arrives	Number of Hours Traveled
1			2
2	7:00	11:00	4
3	4:00 P.M.	7:00 P.M.	3
4	11:00 A.M.	5:00 P.M.	6

SHARPENING YOUR SKILLS

Units 73, 74

Name:_____ **Class:**_____ **Date:**_____

1. Henry used 20 pennies to buy 4 pretzels.

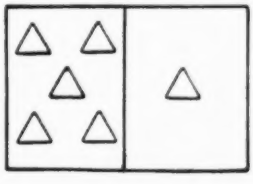
   The ratio of pennies to pretzels is

   20 to 4.

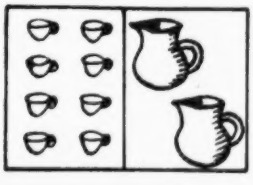
   Write the ratio as a fraction. $\frac{20}{4}$

   What is the cost of 1 pretzel? 5¢

2. Write a ratio, in 2 ways, for each picture below.



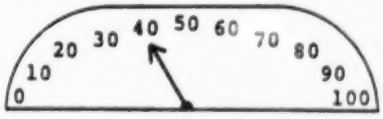
5 to 1 $\frac{5}{1}$



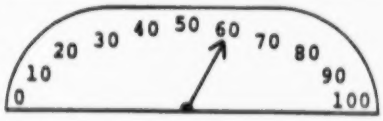
8 to 2 $\frac{8}{2}$

2 to 4 $\frac{2}{4}$

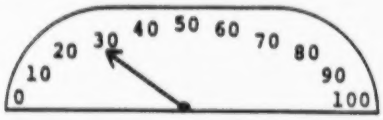
3. What is the rate of speed shown on each speedometer?



40 mph

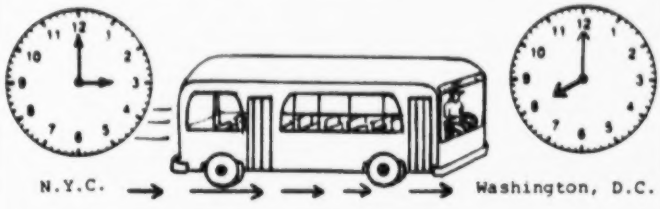


60 mph



30 mph

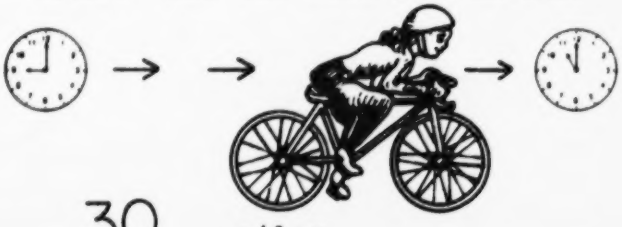
4. Keith's father drove a bus from New York City to Washington, D.C.



For how many hours did he travel?

5 hours

5. If you ride your bicycle at a speed of 15 miles an hour for 2 hours, how far will you travel?



30 miles

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